

NUMERIC[®]

A Group brand | **legrand[®]**

PREMIUS

Single Phase UPS

1 – 10 kVA

THE POWER
OF ONE



**NEW ENERGY
TO POWER**



PREMIUS

Legrand presents Premium, the premium single phase UPS that brings the Power of One advantage. With design at the core, balancing aesthetics, technology with ease of use and performance, Premium sets the new benchmark in single phase UPS.

Get the Power of
ONE
advantage

Premium is an online double conversion single phase UPS that provides reliable and quality power for critical applications across segments.



Power of One

In Design

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In Performance

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Compact footprint	7

In Flexibility

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In Reliability

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In Smart management

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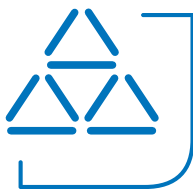
In Service

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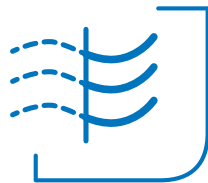
Power of One in DESIGN

Thoughtful Design

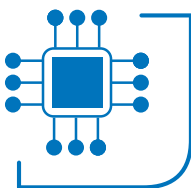
Premius is thoughtfully designed to adapt perfectly to any environment. The air vents in the front and side panels are designed to allow maximum air flow for efficient cooling. The microprocessor controlled fans regulates the fan speed by automatically switching off when not required. This allows UPS to perform at optimal levels with reduced noise.



**Futuristic
style**

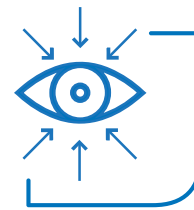


**Maximum
airflow**



**Microprocessor
controlled fan**





Intuitive
display

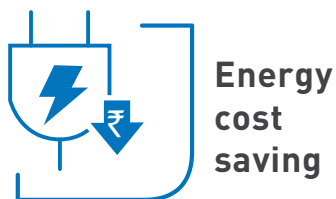
Easy User Interface

The combination of LED indicators and LCD display makes Premiums very user-friendly. LED indicators allow to view the operating status of the UPS even from a distance, while the LCD display shows all the parameters in detail.

Power of One in **PERFORMANCE**

Unity Power Factor

Premius offers output rating of unity power factor across the entire range. A UPS with lower power factor has to be oversized to support dynamic load conditions. In such situations, the UPS cannot handle the real power and the reactive power leading to an overload which could damage not only the UPS but also the critical load.



Low Total Cost of Ownership

Premius offers up to 94% efficiency. High efficiency UPS reduces energy costs and minimises environmental impact. Low THDi of less than 5% across a wide range of load levels improves efficiency, reduces operational expenditure and extends the operating life of the UPS.

Compact Footprint

Premius is a high density compact UPS that has 10% lesser footprint which results in significant savings in real estate cost.



10% lesser footprint

Power of One in **FLEXIBILITY**

Redundancy Configuration

Premius offers N+X redundancy. You can parallel up to four UPS' for an increased output of up to 40 kVA or for redundancy. In the event of failure of a UPS, the other UPS' connected in parallel will take over the complete load ensuring maximum uptime. This allows flexible configuration for dynamic business needs.



Available in 5 to 10 kVA.

For paralleling 4 UPS, the load has to be $\geq 10\%$

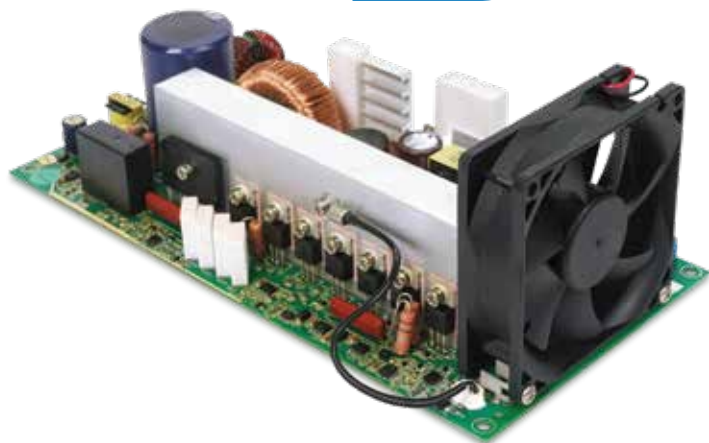


Inbuilt Isolation Transformer

Premius has the option of inbuilt isolation transformer to protect the load from poor quality upstream power. Placed at the input side of the UPS, the isolation transformer filters all electrical disturbances and prevents unforeseen breakdown of the UPS components. This results in cost saving, high reliability and maximum uptime.

High Capacity Charger

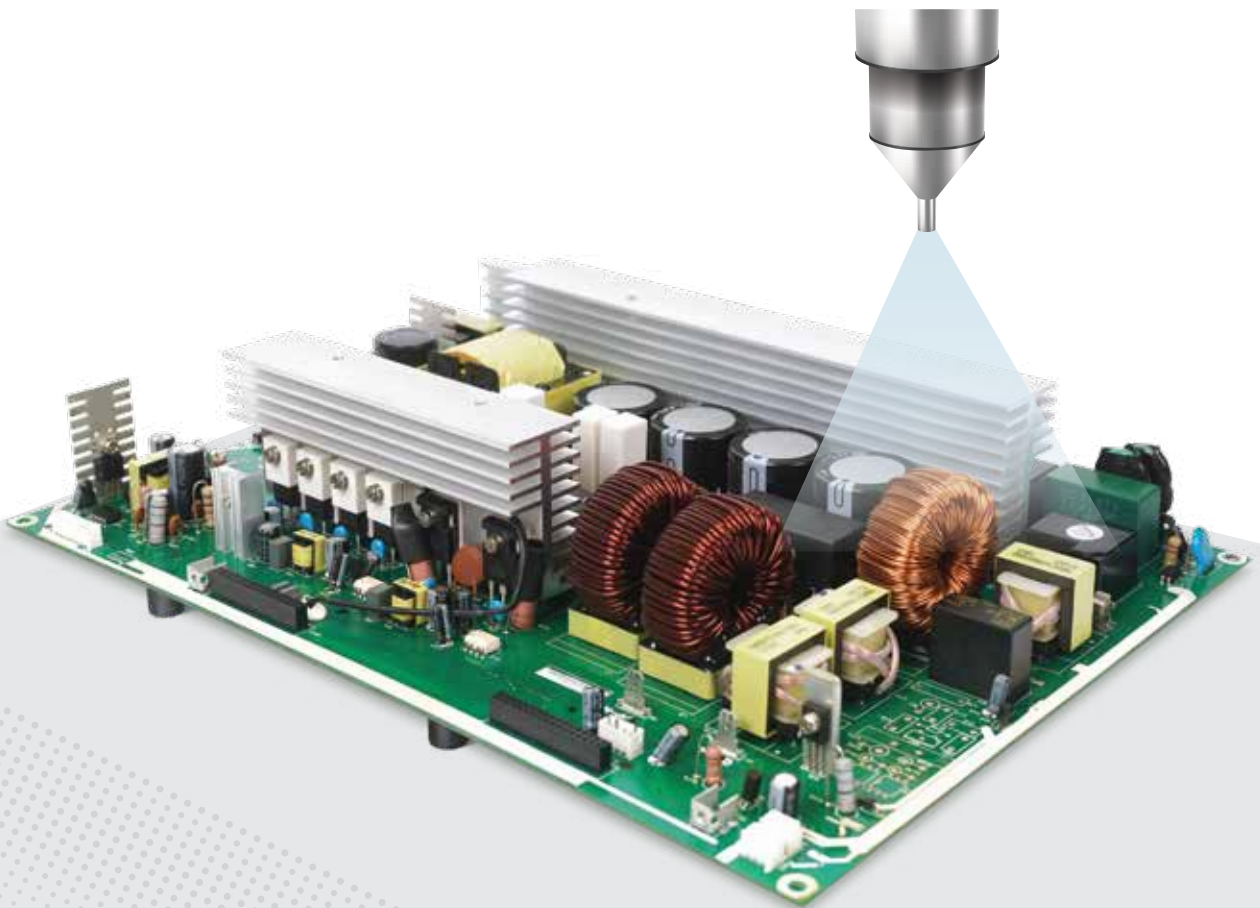
Premius allows you to expand the charging capacity with an internal additional charger. This allows the user to connect high capacity batteries for long power backup and provide upto 2 times quick charge.



Power of One in **RELIABILITY**

Conformal Coating

Premius is designed to withstand varied operating environments. The conformal coating prevents the printed circuit boards from corrosion and electrical failures. This ensures optimum performance and increases the life span of the UPS.





Overvoltage Protection

Premius comes with built-in protection to prevent damages to the components due to high voltage and transient surges. Overvoltage and erratic power supplies could harm the functioning of the UPS resulting in unforeseen downtime. This overvoltage protection gives high availability and reliable power protection for critical applications and ensures business continuity.

Power of One in SMART MANAGEMENT

Programmable Output Socket

Premius is equipped with Indian and IEC output sockets to handle various applications. The IEC output sockets can be programmed and configured to define load priority. This provides battery back-up for high priority loads during mains power failure. Available in 1-3 kVA.





Multiple Communication Options

Designed for today's connected world, Premium comes with multiple communication options. The integrated communication software allows you to monitor the UPS through RS232 and USB interface. The optional network interface card allows remote monitoring of the UPS, via internet.

It can be programmed to push notifications of specific events as they occur. This solution allows to remotely shutdown the UPS, in case of an emergency.

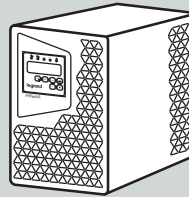
PREMIUS 1-10 kVA

Single Phase Online Double Conversion UPS

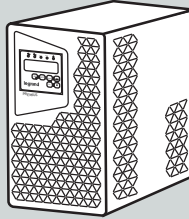
Description	Cat code	Without Inbuilt Isolation Transformer			
		Nominal Power (kVA)	Active power (W)	Dimension in mm (W x H x D)	Weight (Kgs)
1 kVA 36 VDC	NU 72 01 501	1	1000	190 x 490 x 302	11
2 kVA 72 VDC	NU 72 01 505	2	2000	190 x 490 x 302	13
2 kVA 96 VDC	NU 72 01 509	2	2000	190 x 490 x 302	13
3 kVA 72 VDC	NU 72 01 513	3	3000	190 x 490 x 302	13
3 kVA 96 VDC	NU 72 01 517	3	3000	190 x 490 x 302	13
5 kVA 240 VDC	NU 72 01 521	5	5000	260 x 692 x 437	27
6 kVA 240 VDC	NU 72 01 529	6	6000	260 x 692 x 437	27
7.5 kVA 240 VDC	NU 72 01 537	7.5	7500	260 x 692 x 437	32
10 kVA 240 VDC	NU 72 01 544	10	10000	260 x 692 x 437	32

Description	Cat code	With Inbuilt Isolation Transformer			
		Nominal Power (kVA)	Active power (W)	Dimension in mm (W x H x D)	Weight (Kgs)
1 kVA 36 VDC	NU 72 01 503	1	1000	190 x 490 x 512	32.3
2 kVA 72 VDC	NU 72 01 507	2	2000	190 x 490 x 590	37
2 kVA 96 VDC	NU 72 01 511	2	2000	190 x 490 x 590	37
3 kVA 72 VDC	NU 72 01 515	3	3000	190 x 490 x 590	44.5
3 kVA 96 VDC	NU 72 01 519	3	3000	190 x 490 x 590	44.5
5 kVA 240 VDC	NU 72 01 525	5	5000	260 x 692 x 844	71
6 kVA 240 VDC	NU 72 01 533	6	6000	260 x 692 x 844	73.5
7.5 kVA 240 VDC	NU 72 01 540	7.5	7500	260 x 692 x 844	84
10 kVA 240 VDC	NU 72 01 547	10	10000	260 x 692 x 844	95.5

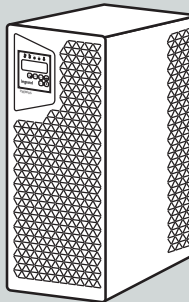
PREMIUS 1 kVA - 3 kVA



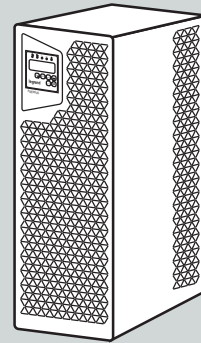
PREMIUS 5 kVA - 10 kVA



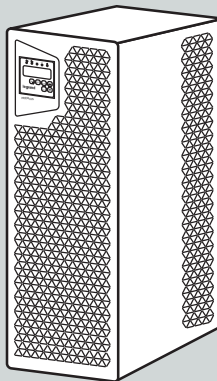
PREMIUS 1 kVA



PREMIUS 2 kVA & 3 kVA



PREMIUS 5 kVA - 10 kVA





legrand

PREMIUM

ON OFF EMV Fu ↓

23.0

PREMIUS 1-10 kVA

Single Phase Online Double Conversion UPS

UPS Without Inbuilt Isolation Transformer							
	1 kVA	2 kVA	3 kVA	5 kVA	6 kVA	7.5 kVA	10 kVA
General characteristics							
Nominal power (VA)	1000	2000	3000	5000	6000	7500	10000
Active power (W)	1000	2000	3000	5000	6000	7500	10000
Technology	Online, Double conversion, VFI-SS-111						
Waveform	Sinusoidal						
Architecture	Tower						
Input characteristics							
Input voltage	230 V						
Input voltage range	160 V - 300 V						
Input frequency range	44 - 66 Hz			45 - 70 Hz			
THD of input current	< 5% at full load in normal UPS operating voltage						
Input power factor	≥ 0.99 (with full linear load)						
Connection	IEC 320-C20	Terminal block 30 A	Terminal block 40 A	Terminal block 75 A 4 Way		Terminal block 100 A 4 Way	
Output characteristics							
Outlets	2 Nos 10 A, IEC 320-C13 & 2 Nos 6 A, IS1293 & 1No 30 A, Terminal Block			Terminal block 75 A 3 Way		Terminal block 100 A 3 Way	
Output voltage	230 V (adjustable to 220/230/240 V) ± 1%						
Output frequency	50 / 60 Hz ± 0,1%						
Crest factor	3:1						
THD of output voltage	< 2% at full linear load < 5% at full non-linear load						
Efficiency	Up to 92%			Up to 94%			
Overload capacity	Continuous operation at <105%, 30 seconds from 106 - 120%, 10 seconds from 121 - 135%			Continuous operation at <105%, 5 minutes from 111 - 130%, 1 minute from 130 - 150%			
Batteries and battery charger characteristics							
Number of batteries	3	6 or 8		20			
Rated battery voltage	36 VDC	72 VDC or 96 VDC		240 VDC			
Recharge time (to 90%)	4 hours						
Communication and management							
Display	LED and LCD for real-time monitoring and control						
Communications ports	RS232 and USB						
Network interface slot	SNMP / MODBUS						
Emergency power off (EPO)	Available						
Mechanical characteristics							
Dimensions W x H x D (mm)	190 x 490 x 302			260 x 692 x 437			
Net weight (kg)	11.5	13.5	13.5	28.5	28.5	33	33
Environmental conditions							
Operating temperature	0°C to +40°C						
Protection index	IP 20						
Relative humidity (%)	20% to 90% (non-condensing)						
Storage temperature	-10°C to +50°C						
Noise level at 1 m (dBA)	< 50 dBA						
Reference directive and standards							
Safety	EN 62040-1 & IS 16242:2014						
EMC	EN 62040-2						
Performance and test requirements	EN 62040-3						

Note: Product specifications are subject to change purely on company's discretion without any prior notice.
General Tolerance for dimensions and weight is ± 2%.

UPS With Inbuilt Isolation Transformer							
	1 kVA	2 kVA	3 kVA	5 kVA	6 kVA	7.5 kVA	10 kVA
General characteristics							
Nominal power (VA)	1000	2000	3000	5000	6000	7500	10000
Active power (W)	1000	2000	3000	5000	6000	7500	10000
Technology	Online, Double conversion, VFI-SS-111						
Waveform	Sinusoidal						
Architecture	Tower						
Input characteristics							
Input voltage	230 V						
Input voltage range	180 V - 295 V						
Input frequency range	44 - 66 Hz			45 - 70 Hz			
THD of input current	< 5% at full linear load and normal voltage						
Input power factor	≥ 0.99 (with full linear load)						
Connection	IEC 320-C20	Terminal block 30 A	Terminal block 40 A	Terminal block 75 A 4 Way	Terminal block 100 A 4 Way		
Output characteristics							
Outlets	2 Nos 10 A, IEC 320-C13 & 2 Nos 6 A, IS1293 & 1No 30 A, Terminal Block			Terminal block 75 A 3 Way		Terminal block 100 A 3 Way	
Output voltage	230 V (adjustable to 220/230/240 V) ± 1%						
Output frequency	50 / 60 Hz ± 0,1%						
Crest factor	3:1						
THD of output voltage	< 2% at full linear load < 5% at full non-linear load						
Efficiency	Up to 83%			Up to 86%			
Overload capacity	Continuous operation at <105%, 30 seconds from 106 - 120%, 10 seconds from 121 - 135%			Continuous operation at <105%, 5 minutes from 111 - 130%, 1 minute from 130 - 150%			
Batteries and battery charger characteristics							
Number of batteries	3	6 or 8		20			
Rated battery voltage	36 VDC	72 VDC or 96 VDC		240 VDC			
Recharge time (to 90%)	4 hours						
Communication and management							
Display	LED and LCD for real-time monitoring and control						
Communications ports	RS232 and USB						
Network interface slot	SNMP / MODBUS						
Emergency power off (EPO)	Available						
Mechanical characteristics							
Dimensions W x H x D (mm)	190 x 490 x 512	190 x 490 x 590		260 x 692 x 844			
Net weight (kg)	32.8	37.5	45	72.5	75	85	96.5
Environmental conditions							
Operating temperature	0°C to +40°C						
Protection index	IP 20						
Relative humidity (%)	20% to 90% (non-condensing)						
Storage temperature	-10°C to +50°C						
Noise level at 1 m (dBA)	< 50 dBA						
Reference directive and standards							
Safety	EN 62040-1 & IS 16242:2014						
EMC	EN 62040-2						
Performance and test requirements	EN 62040-3						

Note: Product specifications are subject to change purely on company's discretion without any prior notice.
General Tolerance for dimensions and weight is ± 2%.

Power of One in **SERVICE**

In today's dynamic business environment, predictable and efficient service delivery is key to business continuity. With customer centric focus, we have put technology as an enabler for a seamless experience, quick response time and faster resolution with CRM.

Onsite Training

Numeric's service engineers are aptly qualified to conduct training programmes and sessions which include hands-on operations, safety, erection, decoding the information on the front panel, precautions, necessary monitoring and many more crucial aspects.



Site Test Commissioning

Our Service Engineers conduct rigorous site tests and full setting-up of the UPS system before going live. They also configure the UPS according to your requirements. Commissioning operations for all UPS are carried out by qualified engineers to guarantee seamless start-up. After the final handing over of the UPS system, the installation report is delivered to you.

Preventive Maintenance

Electronic equipment and power systems, such as UPS, contain limited-life components and parts that must be replaced according to the manufacturer's specifications. To ensure optimal performance and to protect your critical applications from potential downtime, it is crucial to perform preventive maintenance operations on a regular basis and replace parts when needed. Our Service Contracts with Preventive Maintenance include cleaning, UPS measurements, functional tests, technical reports if required, battery health check up and software upgrades. A Preventive Maintenance Plan is one of the most cost-effective actions that can preserve your initial investment and ensure your business continuity.



On Demand Service

In the event of an emergency call, engineers and stocks of spare parts are strategically located at locations near you to minimise downtime. This is available 24 x 7 x 365. Our proprietary diagnostic software helps our engineers identify the fault for a short Mean Time To Repair (MTTR). Corrective actions such as part replacement and other fixes are undertaken to return the UPS system back to normal operations.

Head Office

10th Floor, Prestige Center Court,
Office Block, Vijaya Forum Mall, 183,
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Chennai - 600 026.
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Regional Offices

New Delhi

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Industrial Estate, Mathura Road,
New Delhi - 110 044.
Phone : +91 11 26990028 / 29 / 30

Kolkata

Bhakta Tower, Plot No. KB22,
2nd & 3rd Floor, Salt Lake City,
Sector - III, Kolkata - 700 098.
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Mumbai

C/203, Corporate Avenue, Atul Projects,
Near Mirador Hotel, Chakala,
Andheri Ghatkopar Link Road,
Andheri (East), Mumbai - 400 099.
Phone : +91 22 3385 6201

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Branch Offices

Chandigarh

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Dehradun

First Floor, Plot No. 1 & 2,
(679/1) Vijay Park Colony, Main Chakrata Rd,
Dehradun - 248 001.
Phone : +91 135 272 9649

Jaipur

Plot No. J-6, Scheme-12B,
Sharma Colony, Bais Godown,
Jaipur - 302 019.
Phone : +91 141 221 9082

Lucknow

209/B, 2nd Floor, Cyber Heights,
Vibhuti Khand, Gomti Nagar,
Lucknow - 226 018.
Phone : +91 93352 01364

Bhubaneswar

N-2/72 Ground Floor, IRC Village,
Nayapally, Bhubaneswar - 751 015.
Phone: +91 674 255 0760

Guwahati

House No 02,
Rajgarh Girls High School Road
(Behind Rajgarh Girls High School),
Guwahati - 781 007.
Phone : +91 361 245 0322/245 1987

Patna

204, Fraser Road, Hemplaza,
2nd Floor, Patna - 800 001.
Phone : +91 612 220 0657

Ranchi

202 & 203, Bardwan Compound,
Lalpur, 2nd Floor, Ranchi - 834 001.
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Ahmedabad

A-101/102, Mondeal Heights,
Beside Hotel Novotel,
Near Iscon Circle, S G Highway,
Ahmedabad - 380 015.
Phone : +91 79 6134 0555

Bhopal

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Bhopal - 462 011.
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Nagpur

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Utkarsh Ashwini Appts,
RPTS Road, Laxmi Nagar,
Nagpur - 440 022.
Phone : +91 712 228 6991 / 228 9668

Pune

302, 3rd Floor, Swastik Chambers,
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Phone : +91 84 5201 4036

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4th Floor, Avinashi Road, Coimbatore - 641 018.
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No. 205-208, 2nd Floor, Block 2,
White House Kundan Bag, Begumpet,
Hyderabad - 500 016.
Phone : +91 40 4567 1732

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Door No. 50/1107A9, JB Manjooran Estate,
3rd Floor, Bypass Junction,
Edappally, Kochi - 682 024.
Phone : +91 484 2801 921

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Door. No.1, Pillayar Koil Street,
S.S.Colony, Madurai - 625 016.
Phone : +91 452 260 4555

NUMERIC®

A Group brand |  **legrand®**

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Service - support.numeric@numericups.com
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www.numericups.com

NUMERIC[®]

A Group brand | **legrand**[®]



#CompactImpact



**NEW ENERGY
TO POWER**

ONFINITI+

1 - 10 kVA
Single Phase UPS

www.numericups.com

FEATURES

- Compact footprint
- Intuitive LCD display
- Wide input voltage range
- Efficiency Up to 94%
- Inbuilt galvanic isolation transformer (optional)
- Solar & generator compatible

SEGMENTS



Residential & SOHO



Commercial



Healthcare



Infrastructure



Education

WHY ONFINITI+



High Reliability



Easy user interface



Network management



Low cost of ownership



Over voltage protection

WHY NUMERIC

35+
YEARS OF EXPERTISE

WIDEST
SERVICE NETWORK
250+
DIRECT SERVICE CENTRES

PRODUCT RANGE FROM
24VA TO
21MW

1 MILLION +
UPS
ACTIVE
INSTALLATION BASE

1500+
EMPLOYEES

2 WORLD
CLASS
MANUFACTURING UNITS

TOP **3** UPS
COMPANIES
IN INDIA

UNDISPUTED LEADER* IN **30**
LI & 1P FOR CONSECUTIVE
YEARS

*Source: Softdisk; LI-Line Interactive 1P- Single Phase

TECHNICAL SPECIFICATIONS

ONFINITI⁺ 1-10kVA FM Specification

PARAMETERS	1 KVA	2 KVA	3 KVA	6 KVA	10 KVA
Output power capacity	800 W	1600 W	2400 W	4800 W	8000 W
Technology	Online, double conversion, VFI-SS-111				
OVCD	Available				
Waveform	Sinusoidal				
Display panel	LCD display			LCD display + LED panel	
INPUT CHARACTERISTICS					
Input voltage	230 VAC				
Input frequency range	50-60 Hz ± 8% Auto sensing				
Input voltage range	160 V - 300 VAC @ 100% load ± 5%			176 V - 300 VAC @ 100% load ± 3%	
	110 V - 300 VAC @ 60% load ± 5%			110 V - 300 VAC @ 50% load ± 3%	
THD of input current	< 10% at full linear load and normal voltage			< 7% at full linear load and normal voltage	
Input power factor	≥ 0.99 (with full linear load)				
Connection	IEC Inlet	IEC Inlet	Terminal block	Terminal block	Terminal block
OUTPUT CHARACTERISTICS					
Outlets	3 x India type 6 Amps	4 x India type 6 Amps	4 x India type 6 Amps, Terminal block	Terminal block	Terminal block
Output voltage	230 VAC (adjustable to 220/230/240 VAC) ± 1%				
Output frequency	50 / 60 Hz ± 0.1 Hz				
Frequency synchronisation	46 to 54 Hz				
Crest factor	3:1				
THD of output voltage	< 3% at full linear load				
	< 5% at full non-linear load				
AC-AC efficiency*	Up to 87% @ 100% Load	Up to 88% @ 100% Load	Up to 90% @ 100% Load	Up to 92% @ 100% Load	Up to 93% @ 100% Load
ECO mode efficiency	Yes, 97%			Not available	
Converter mode	Available				
Configurable bypass	Available				
Overload capacity in Line mode	105 - 110% 10 mins, 111 - 130% 2 mins, 131 - 150% 30 sec			105 - 110% 30 mins, 111 - 130% 5 mins, 131 - 150% 10 sec	
Overload capacity in Battery mode	105 - 110% 10 mins, 111 - 130% 1 mins, 131 - 150% 3 sec			105 - 110% 3 mins, 111 - 130% 30 secs, 131 - 150% 3 sec	
BATTERIES AND BATTERY CHARGER CHARACTERISTICS					
Number of batteries	3	6 or 8		16/17/18/19/20	
Battery compatibility	VRLA/ Tubular/ Lithium-Ion				
Rated battery voltage	36 VDC	72 VDC or 96 VDC		192/204/216/228/240 VDC	
Battery charging current	10A default (1A / 2A/5A/10A Selectable)			4A default (1A/2A/4A Selectable)	
Recharge time (to 90%)	9 hours				
COMMUNICATION AND MANAGEMENT					
Communication ports	RS232 and USB				
Connector for network interface	SNMP/MODBUS/Dry contacts - Optional				
MECHANICAL CHARACTERISTICS					
Dimensions for FM (W x D x H) in mm	145 x 290 x 225	145 x 397 x 238		190 x 400 x 336	190 x 475 x 336
Net weight in kg (FM)	4.9	7.9	8.3	12	16
ENVIRONMENTAL CONDITIONS					
Operating temperature	0 °C to +40 °C			0 °C to +50 °C	0 °C to +40 °C
Protection index	IP 20				
Relative humidity [%]	0% to 95% (non-condensing)				
Storage temperature	-10 °C to +50 °C				
Noise level at 1 m (dBA)	< 50 dBA			< 55 dBA	< 58 dBA
REFERENCE DIRECTIVE AND STANDARDS					
Safety	IEC 62040-1 & IS 16242 (Part1) : 2014				
EMC	IEC 62040-2				
Performance and test requirements	IEC 62040-3				
Other compliance	CE, RoHS				

*Note- For detailed efficiency, please refer data sheet

TECHNICAL SPECIFICATIONS

ONFINITI⁺ 1-10kVA FMI Specification

PARAMETERS	1 KVA	2 KVA	3 KVA	6 KVA	10 KVA
Output power capacity	800 W	1600 W	2400 W	4800 W	8000 W
Technology	Online, double conversion, VFI-SS-111				
OVCD	Available				
Waveform	Sinusoidal				
Display panel	LCD display			LCD display + LED panel	
INPUT CHARACTERISTICS					
Input voltage	230 VAC				
Input frequency range	50-60 Hz ± 8% Auto sensing				
Input voltage range	160 V - 300 VAC @ 100% load ± 5%			176 V - 300 VAC @ 100% load ± 3%	
	110 V - 300 VAC @ 60% load ± 5%			110 V - 300 VAC @ 50% load ± 3%	
THD of input current	< 10% at full linear load and normal voltage			< 7% at full linear load and normal voltage	
Input power factor	≥ 0.99 (with full linear load)				
Connection	IEC Inlet	IEC Inlet	Terminal block	Terminal block	Terminal block
OUTPUT CHARACTERISTICS					
Outlets	3 x India type 6 Amps	4 x India type 6 Amps	4 x India type 6 Amps, Terminal block	Terminal block	Terminal block
Output voltage	230 VAC (adjustable to 220/230/240 VAC) ± 2%				
Output frequency	50 / 60 Hz ± 0.1 Hz				
Frequency synchronisation	46 to 54 Hz				
Crest factor	3:1				
THD of output voltage	< 3% at full linear load				
	< 5% at full non-linear load				
AC-AC efficiency*	Up to 80% @ 100% Load	Up to 83% @ 100% Load	Up to 84% @ 100% Load	Up to 87% @ 100% Load	Up to 87% @ 100% Load
ECO mode efficiency	Yes, 97%			Not available	
Converter mode	Available				
Configurable bypass	Available				
Overload capacity in Line mode	105 - 110% 10 mins, 111 - 130% 2 mins, 131 - 150% 30 sec			105 - 110% 30 mins, 111 - 130% 5 mins, 131 - 150% 10 sec	
Overload capacity in Battery mode	105 - 110% 10 mins, 111 - 130% 1 mins, 131 - 150% 3 sec			105 - 110% 3 mins, 111 - 130% 30 secs, 131 - 150% 3 sec	
BATTERIES AND BATTERY CHARGER CHARACTERISTICS					
Number of batteries	3	6 or 8		16/17/18/19/20	
Battery compatibility	VRLA/ Tubular/ Lithium-Ion				
Rated battery voltage	36 VDC	72 VDC or 96 VDC		192/204/216/228/240 VDC	
Battery charging current	10A default (1A / 2A/5A/10A Selectable)			4A default (1A/2A/4A Selectable)	
Recharge time (to 90%)	9 hours				
COMMUNICATION AND MANAGEMENT					
Communication ports	RS232 and USB				
Connector for network interface	SNMP/MODBUS/Dry contacts - Optional				
MECHANICAL CHARACTERISTICS					
Dimensions for FMI (W x D x H) in mm	145 x 290 x 458	145 x 397 x 458		190 x 475 x 596	190 x 475 x 596
Net weight in kg (FMI)	26	35	36	59	62
ENVIRONMENTAL CONDITIONS					
Operating temperature	0 °C to +40 °C			0 °C to +50 °C	0 °C to +40 °C
Protection index	IP 20				
Relative humidity [%]	0% to 95% (non-condensing)				
Storage temperature	-10 °C to +50 °C				
Noise level at 1 m [dBA]	< 50 dBA		< 55 dBA		< 58 dBA
REFERENCE DIRECTIVE AND STANDARDS					
Safety	IEC 62040-1 & IS 16242 (Part1) : 2014				
EMC	IEC 62040-2				
Performance and test requirements	IEC 62040-3				
Other compliance	CE, RoHS				

*Note- For detailed efficiency, please refer data sheet

Head Office

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Office Block, Vijaya Forum Mall, 183,
N.S.K Salai, Vadapalani,
Chennai - 600 026.
Phone: +91 44 4656 5555

Regional Offices

New Delhi

B-225, Okhla Industrial Area,
4th Floor, Phase-1,
New Delhi - 110 020.
Phone: +91 11 2699 0028

Kolkata

Bhakta Tower, Plot No. KB22,
2nd & 3rd Floor, Salt Lake City,
Sector - III, Kolkata - 700 098.
Phone: +91 33 4021 3535 / 3536

Mumbai

C/203, Corporate Avenue, Atul Projects,
Near Mirador Hotel, Chakala,
Andheri Ghatkopar Link Road,
Andheri (East), Mumbai - 400 099.
Phone: +91 22 3385 6201

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Chennai - 600 026.
Phone: +91 44 3024 7236 / 200

Branch Offices

Chandigarh

SCO 4, First Floor, Sector 16,
Panchkula, Chandigarh - 134 109.
Phone: +91 93160 06215

Dehradun

Unit-1 and 2, Chakrata Road,
Vijay Park Dehradun - 248001.
Uttarakhand
Phone: +91 135 661 6111

Jaipur

Plot No. J-6, Scheme-12B,
Sharma Colony, Bais Godown,
Jaipur - 302 019.
Phone: +91 141 221 9082

Lucknow

209/B, 2nd Floor, Cyber Heights,
Vibhuti Khand, Gomti Nagar,
Lucknow - 226 018.
Phone: +91 93352 01364

Bhubaneswar

N-2/72 Ground Floor, IRC Village,
Nayapally, Bhubaneswar - 751 015.
Phone: +91 674 255 0760

Guwahati

House No 02,
Rajgarh Girls High School Road
(Behind Rajgarh Girls High School),
Guwahati - 781 007.
Phone: +91 96000 87171

Patna

405, Fraser Road, Hemplaza,
4th Floor, Patna - 800 001.
Phone: +91 612 220 0657

Ranchi

202 & 203, 2nd Floor, Sunrise Forum,
Bardwan Compound, Lalpur, 2nd Floor,
Ranchi - 834 001.
Phone: +91 98300 62078

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& Mokhare College, Bhamti Road,
Loksewa Nagar, Nagpur - 440 022.
Phone: +91 712 228 6991 / 228 9668

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Pune, Maharashtra - 411 004.
Phone: +91 +20 6729 5624

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Bowring Hospital Road,
Shivajinagar, Bangalore -560 001.
Phone: +91 80 6822 0000

Coimbatore

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1st Floor, Avinashi Road, Coimbatore - 641 018.
Phone: +91 422 420 4018

Hyderabad

Prestige Phoenix Building,
1st Floor, Survey no. 199,
No. 6-3-1219/J/101 & 102, Uma Nagar,
Opposite to Begumpet Metro Station
Begumpet 500016
Phone: +91 40 4567 1717/2341 4398/2341 4367

Kochi

Door No. 50/1107A9, JB Manjooran Estate,
3rd Floor, Bypass Junction,
Edappally, Kochi - 682 024.
Phone: +91 484 6604 710

Madurai

12/2, DSP Nagar,
Dinamalar Avenue,
Madurai - 625 016.
Phone: +91 452 260 4555

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www.numericups.com

NUMERIC[®]

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PREMIUS

Single Phase UPS

7.5 – 20 kVA

THE POWER
OF ONE



**NEW ENERGY
TO POWER**



The one for **YOUR NEEDS**

Legrand presents Premium, a true online double conversion single-phase UPS that brings the Power of One advantage. Crafted meticulously to bring together cutting-edge technology, aesthetics, user-friendly operation, and exceptional performance. Premium offers best-in-class features that ensures consistent high-quality power supply for mission-critical applications across several industries, thereby redefining the industry's standard for single-phase UPS systems.

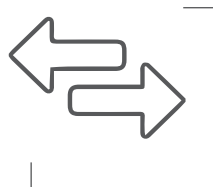
Get the Power of
ONE
advantage



Power of One in **DESIGN**

Thoughtful Design

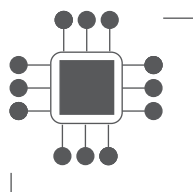
Premius is thoughtfully engineered to seamlessly adapt to any environment. It is designed to be dynamic as it gives you the flexibility to interchange between single-phase or three-phase input and single-phase output, depending on your business needs.



**Adaptive
Configuration**

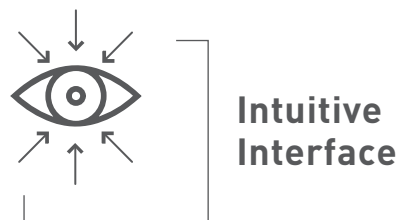
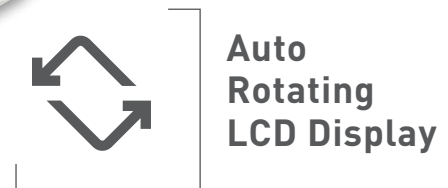
Designed with Purpose

The microprocessor-controlled fans effectively manage fan speed by automatically shutting down when not needed. This feature enables the UPS to operate at peak performance levels while minimising noise.



**Microprocessor
Controlled Fans**



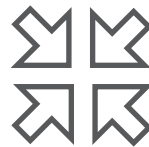


Easy User Interface

Premius comes with user-friendly gravity sensing LCD display that can adapt as per UPS Rack / Tower installation. This LCD display not only allows the user to view the operating status of the UPS in detail, but also offers a comprehensive presentation of all parameters. An innovative auto-rotating display ensures effortless monitoring and management, adapting to your preferred orientation for clear and convenient real-time status updates.

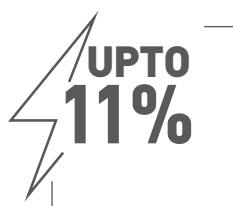
Compact Footprint

Premius is a compact high-density UPS, with 30% less footprint resulting in significant space saving. When mounted in rack form factor, Premius occupies just 3U of rack space allowing ease of handling with minimum effort, during expansion or relocation of the business.



**30% Less
Footprint**

Power of One in **PERFORMANCE**



**More Active
Power**

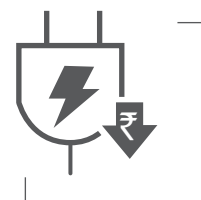
Unity Power Factor

The complete Premium range offers a unity power factor that provides maximum active power, by converting more of input power to usable output power. This optimises energy usage. Its unity power factor eliminates the need for oversizing, ensuring it can efficiently manage dynamic load conditions without issues making it ideal for segments like Data Centers, IT& ITeS.



Low Total Cost of Ownership

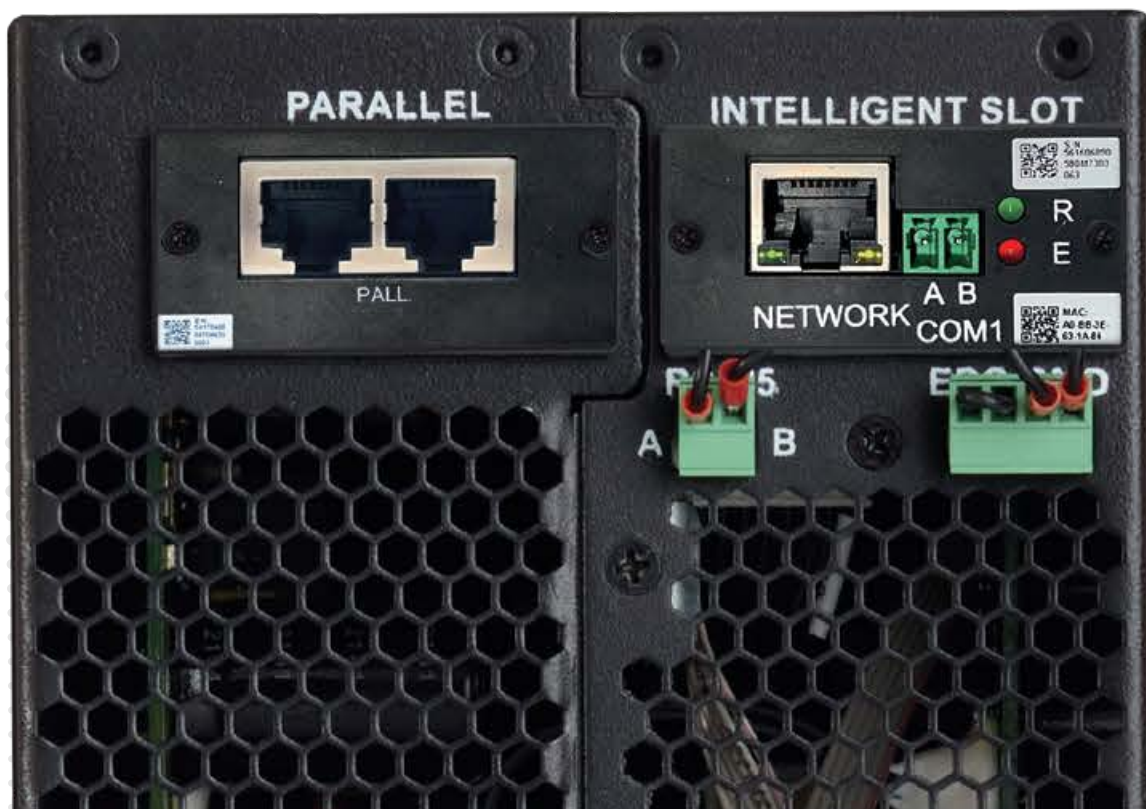
Owing to its three-level inverter design, Premium delivers upto 96% efficiency, leading to a significant reduction in energy loss and increased energy cost savings. The complete range of Premium offers less than 5% THDi which helps reduce energy consumption, saves operational costs and increases the life span of the UPS. The combination of these features, along with its compact footprint, ensure low Total Cost of Ownership and makes it an ideal choice for diverse industries.



**Energy Cost
Saving**

Power of One in REMOTE MANAGEMENT

Tailored for the modern interconnected world, Premium offers a range of communication options. Its built-in communication software enables UPS monitoring via RS485. With the SNMP card, the UPS can be controlled remotely over the internet and it also has a feature to send SMS alerts for programmed events.



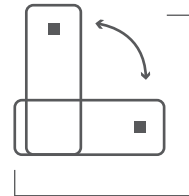
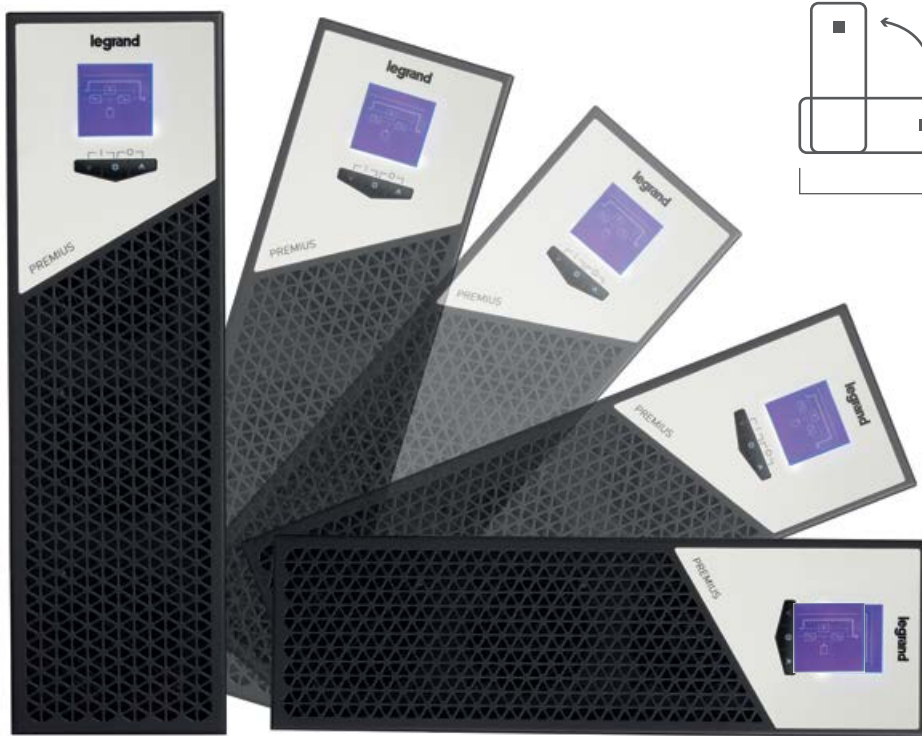
Power of One in **FLEXIBILITY**

Redundancy Configuration

Premius offers N+X redundancy. This makes it possible to rack up to four UPS units in parallel and increase the output up to 80 kVA. In the event of failure of a particular UPS, the other UPS units take over the complete load, ensuring maximum uptime and uninterrupted business continuity.

Available in 7.5 to 20 kVA





Flexible Configuration

Rack Tower Configuration

Premius provides flexibility to be configured as a rack or tower UPS, depending on your infrastructure needs. Its high-density rack tower form gives you the option to set it up as a rack or as a conventional UPS making it ideal for IT rack set ups. This adaptability simplifies installation and maintenance in data centers and server rooms.

High Capacity Charger

Premius is equipped with a high capacity internal charger that restores the charge during a power outage. This gives it a longer backup and allows the recharge to be twice as fast.

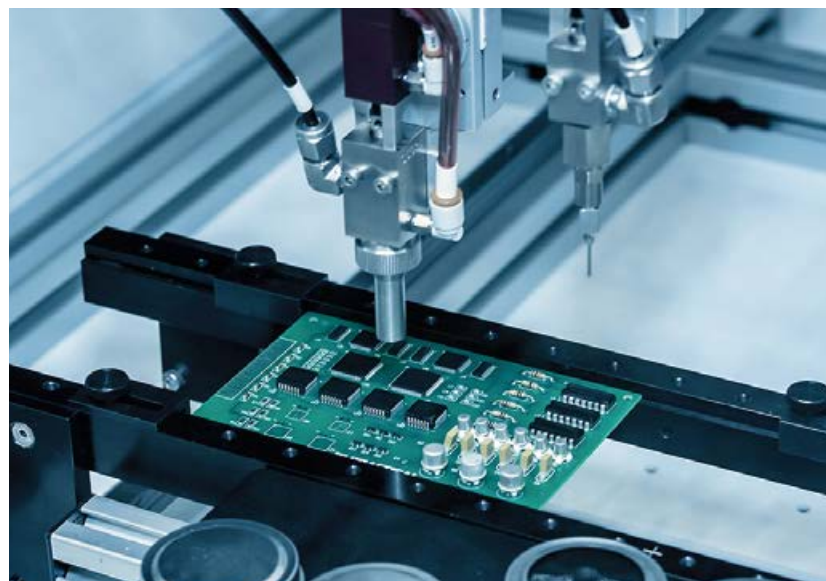


2x Quick Charge

Power of One in **RELIABILITY**

Conformal Coating

Premius is engineered to endure diverse operational conditions. The application of conformal coating acts as a safeguard against corrosion and electrical malfunctions on the printed circuit boards, ensuring optimal performance and extending the UPS' lifespan.

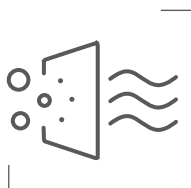


Bypass Panel

Premius comes with an optional bypass panel that provides a mechanism to safely transfer power loads between the UPS and the utility source. In case of UPS maintenance or failure, the bypass panel allows for seamless switching to utility power, ensuring continuous power supply to critical equipment without disruption. This redundancy minimizes downtime and enhances reliability of the UPS ensuring uninterrupted business continuity.

Dust Filter

Premius is equipped with a dust filter that adds to the system's reliability by preventing the accumulation of dust and particulate matter, ensuring optimal performance and longevity even under harsh environments.



Dust Protection



Over Voltage Protection

Premius incorporates built-in protection to safeguard its components from potential harm caused by high voltage spikes and transient surges. This not only ensures the longevity and reliability of the UPS, but also enhances the protection of critical equipment, reducing the risk of costly downtime and data loss.

PREMIUS 7.5 - 20 kVA

Single Phase Online Double Conversion UPS

General Characteristics	7.5 kVA	10 kVA	15 kVA	20 kVA
Nominal power (VA)	7500	10000	15000	20000
Active power (W)	7500	10000	15000	20000
Technology	Online, double conversion, VFI-SS-111			
Waveform	Sinusoidal			
Architecture	Rack / Tower			
Configuration	3P-1P / 1P-1P (Factory configurable)			
Input Characteristics				
Input voltage	230 V (Line-Neutral) 400 V (Line-Line)			
Input voltage range	176 V-280 V (Line-Neutral), 305 V-485 V (Line-Line)			
Input frequency range	40-70 Hz			
THD of input current	< 5% at full linear load and normal voltage			
Input power factor	≥ 0.99 (with full linear load)			
Connection	Terminal block			
Output Characteristics				
Outlets	Terminal block			
Output voltage	230 V (adjustable to 220/230/240±1%)			
Output frequency	50 / 60 Hz ± 0,1%			
Crest factor	3:1			
THD of output voltage	< 1% at full linear load			
	< 3% at full non-linear load			
Efficiency	Up to 96%			
Overload capacity	105% continuous, 106-110% load 60 mins, 111-130% load 10 mins, 131-155% load 1 min, above 155% load 200ms.			
Batteries and Battery Charger Characteristics				
Number of batteries	12 V battery 192 Vdc ~ 480 Vdc (± 8 nos. ~ ±20 nos.)	12 V battery 288 Vdc ~ 480 Vdc (± 12 nos. ~ ±20 nos.) (Output derates to 75% if the battery voltage 288 Vdc ~ 360 Vdc (±12 nos. ~ ±15 nos.)		
Battery type	Depending on the capacity of external batteries			
Rated battery current	10Amps (1A/2A/3A/4A/5A/6A/7A/8A/9A/10A selectable)			
Recharge time (to 90%)	4 hours			

Communication and Management				
Screen and signalling	Three buttons with LEDs for real-time control of the status and the main parameters of the UPS			
Communications ports	RS485			
Connector for network interface	SNMP/ Dry contact (Optional)			
Remote control	Yes			
Emergency power off (EPO)	Yes			
Mechanical Characteristics				
UPS dimensions WxDxH (mm)	438×572×130 (3U)			
UPS Net weight (kg)	19	19	20	20
Distribution box dimensions WxDxH (mm)	438×572×130 (3U)			
Distribution box Net weight (kg)	11			
Environmental Conditions				
Operating temperature	0 °C to +40 °C			
Protection index	IP 20			
Relative humidity (%)	0% to 95% (non-condensing)			
Storage temperature	-10 °C to +50 °C			
Noise level at 1 m (dBA)	< 55			
Reference Directive and Standards				
Safety	EN / IEC 62040-1 & IS 16242:2014			
EMC	EN / IEC 62040-2			
Performance and test requirements	IEC 62040-3			

Note: Product specifications are subject to change purely on company's discretion without any prior notice.
General tolerance for dimensions and weight is $\pm 2\%$.

Power of One in **SERVICE**

In today's dynamic business environment, proactive and efficient service delivery is key to business continuity. With customer centric focus, we have put technology as an enabler for a seamless experience, quick response time and faster resolution with CRM.

Onsite Training

Numeric's service engineers are aptly qualified to conduct training programmes and sessions which include hands-on operations, safety, erection, decoding the information on the front panel, precautions, necessary monitoring and many more crucial aspects.



Site Test, Commissioning

Our Service Engineers conduct rigorous site tests and setting-up of the UPS system before going live. They also configure the UPS according to your requirements. Commissioning operations

for all UPS systems are carried out by qualified engineers to guarantee seamless startup. The installation report is delivered after the final handing over of the UPS system.

Preventive Maintenance

Electronic equipment and power systems, such as UPS, contain limited-life components and parts that must be replaced according to the manufacturer's specifications. To ensure optimal performance and protect your critical applications from potential downtime, it is crucial to perform preventive maintenance operations on a regular basis and replace

parts when needed. Our Service Contracts with PM include cleaning, UPS measurements, functional tests, technical reports if required, battery health check up and software upgrades. A Preventive Maintenance Plan is one of the most cost-effective actions that can preserve your initial investment and ensure business continuity.



On Demand Service

In the event of an emergency call, engineers and stocks of spare parts are strategically located at locations near you to minimise downtime. This is available 24x7x365. Our proprietary diagnostic software helps our engineers identify the fault for a short Mean

Time To Repair (MTTR). Corrective actions such as part replacement and other fixes are undertaken to return the UPS system back to normal operations.

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HPI 33 EVO

Three Phase UPS
10 - 40 kW



**NEW ENERGY
TO POWER**





HPi 33 EVO

Three Phase UPS

10 - 40 kW

THE EVOLUTION IS HERE

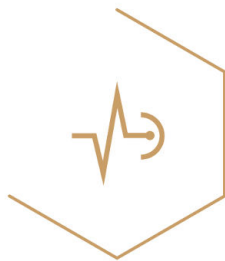
At Numeric, we have always been driven by need-based innovations and smart solutions that addresses the changing needs of our customers. Our all new HPi 33 EVO is the result of this constant drive to offer you the best solutions with respect to maximum power availability, reliability and high efficiency.

HPi 33 EVO is a true online double conversion UPS with APFC PWM IGBT based design that delivers unity output power factor. It supplies a rated output power of 10-20-30-40 kW with kVA = kW. With upto 95% efficiency, HPi 33 EVO helps users have lowest total cost of ownership. HPi 33 EVO offers a seamless power protection solution and is ideally suited for mission critical applications in IT, ITeS, infrastructure, education, manufacturing, healthcare, small and medium data centers.

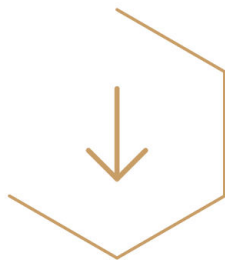


Evolution In **PERFORMANCE**

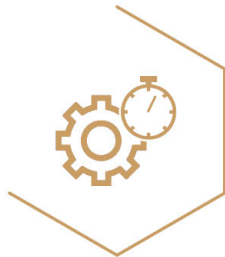
HPI 33 EVO is designed to provide a true evolution in high performance. It comes with an IGBT rectifier and inverter which delivers quality and efficient power output, making it an ideal choice for your mission critical applications. The power architecture is designed to offer maximum active power, upto 95% efficiency and a low THDi. The intelligent fan operation ensures optimal cooling by automatically regulating the temperature resulting in reduced operational costs and high efficiency levels.



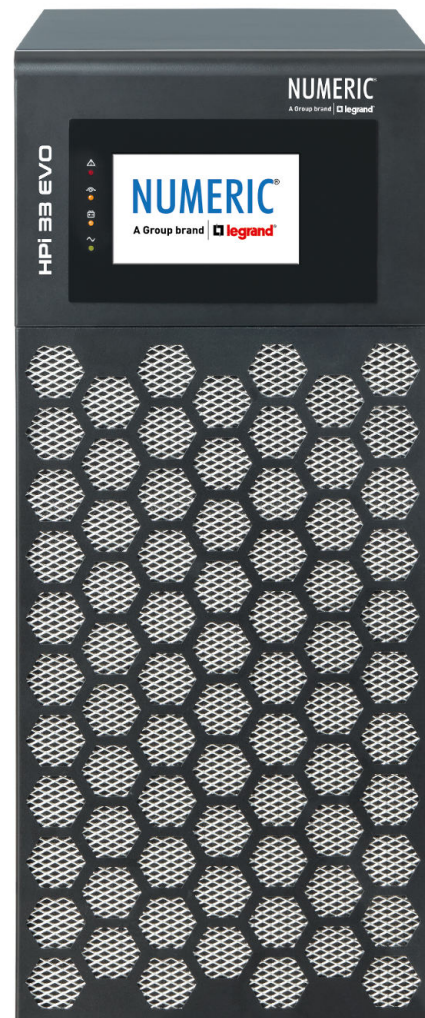
**Unity
Power Factor**

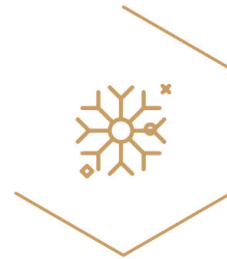


**Low
Harmonics**



**Upto
95% Efficiency**





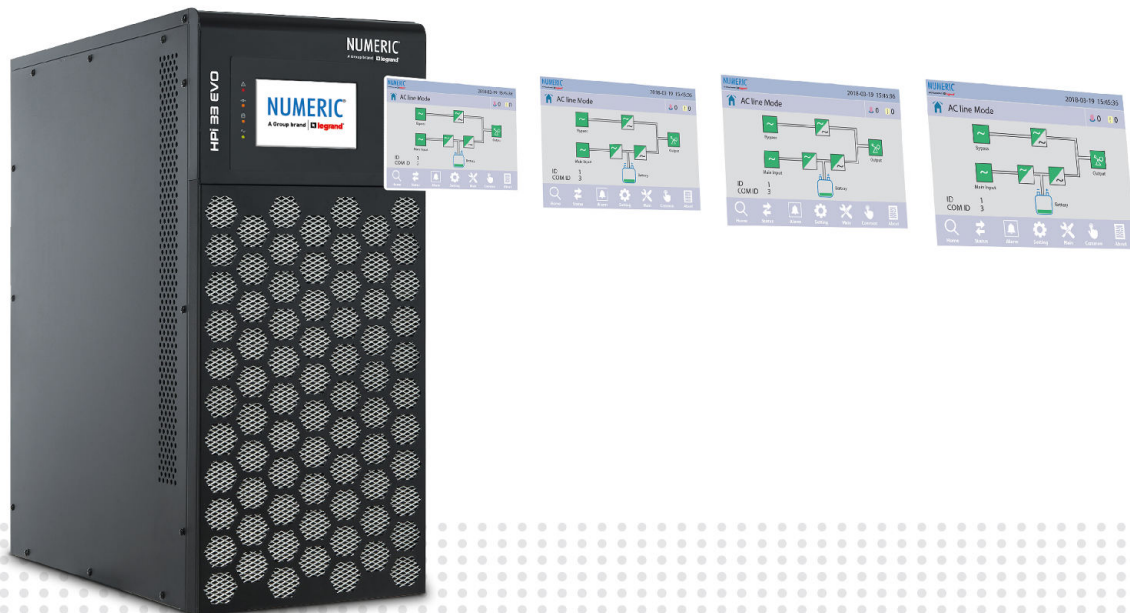
Optimal Cooling



IGBT Rectifier

Evolution In **EASE OF USE**

The 5" intuitive display is extremely user-friendly and helps in monitoring various system parameters like I/O voltage, battery parameters, output power/load PF, mimic power flow diagram, and history logs with ease. Designed to use upto 30% less space, the HPi 33 EVO has a compact footprint, results in significant reduction in real estate costs. It is also equipped with a wide range of external monitoring options like Simple Network Management Protocol (SNMP), Modbus, RS 232 and USB etc., which enables a user to remotely manage the UPS. These aspects of HPi 33 EVO represent an evolution in ease of use and contribute to its overall functionality.

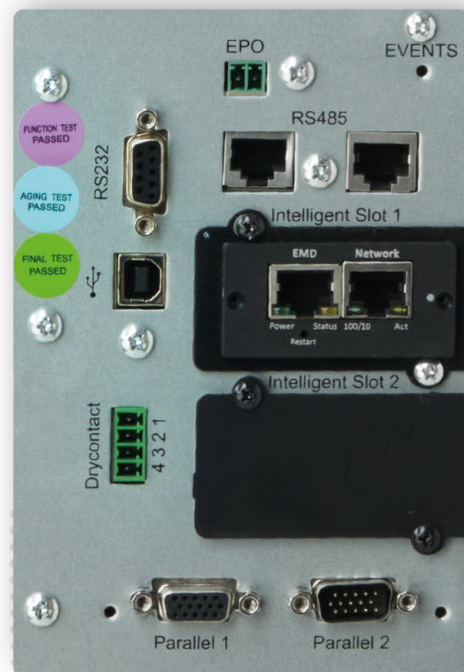




**Compact
Footprint**

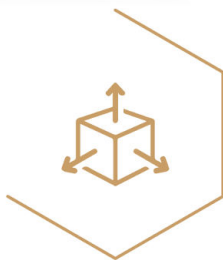
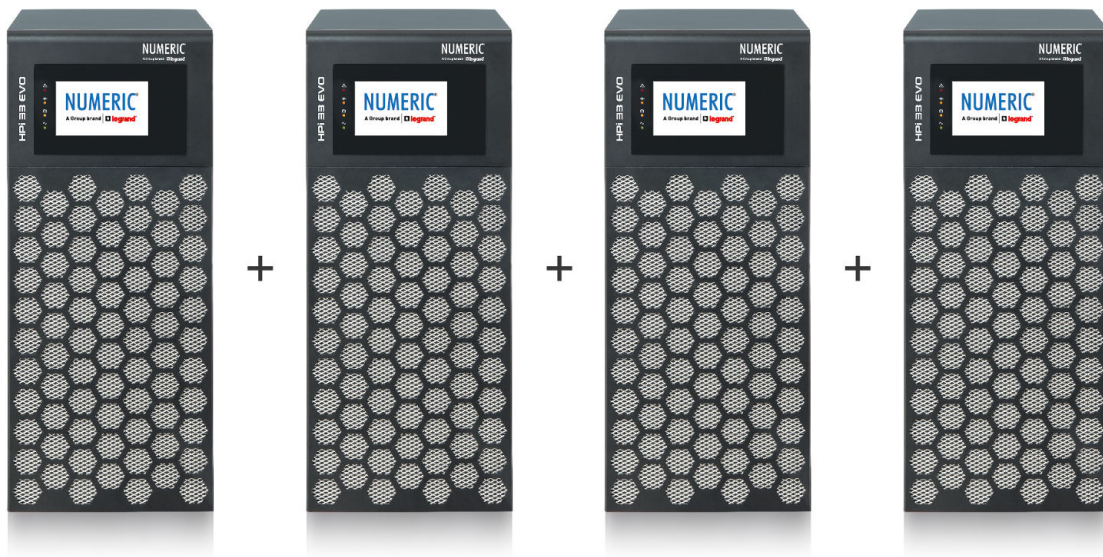


**Network
Management
Options**

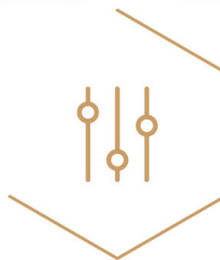


Evolution In **FLEXIBILITY**

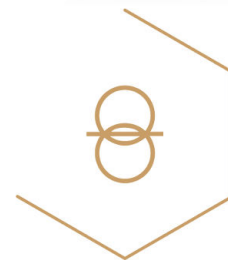
HPi 33 EVO allows N+X redundancy upto 4 UPSs in parallel operation, effectively reducing the risk of downtime. Additionally, it can be scaled up to 2 units in parallel within a common battery configuration to achieve increased reliability, efficient load sharing and highest power availability. Evolution in flexibility is also achieved by an advanced battery management function which enables users to optimize the performance and lifespan of the battery system. A flexible DC Bus provides a wide battery operating window and enables scalability of the system. The HPi 33 EVO also offers an optional isolation transformer that safeguards critical equipment from low-quality upstream power and enables its safe operation.



N+X Redundancy



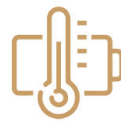
Common Battery Configuration



Isolation Transformer



Advanced Battery Management



Temperature Compensated Battery Charger



Selectable & Adjustable Battery Charging Current



Flexible DC Bus

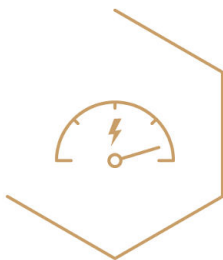
Evolution In **PROTECTION**

When it comes to evolution in protection, the HPi 33 EVO scores on several fronts. The UPS is equipped with a dust filter which helps in protecting the UPS from dust particles.

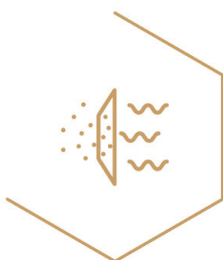
A wide input voltage window enables it to operate within a broad range of input voltages, ensuring reliable performance and protection of connected equipment. The conformal coated PCBs provide protection against environmental factors, preventing corrosion and electrical failures, thereby increasing the reliability and longevity of the UPS. A built in phase reversal protection and correction system along with built in input, output and MBS switches ensure added protection to the equipment.



**Phase Reversal
Protection System**



**Wide Input
Voltage Window**



Dust Filter





**Built-in Input,
Output And
MBS Switches**



**Conformal
Coated Boards**



HPI 33 EVO 10 - 40 kW

Three Phase UPS

Cat. No.	NU 7206 801	NU 7206 802	NU 7206 803	NU 7206 804
Rating	10 kVA	20 kVA	30 kVA	40 kVA
General Characteristics				
Nominal Power (kVA)	10 kVA	20 kVA	30 kVA	40 kVA
Active Power (kW)*	10 kW	20 kW	30 kW	40 kW
Technology	Online Double Conversion VFI-SS-111			
Waveform	Pure Sinewave			
Architecture	Conventional UPS Parallelable upto 4 Units			
Input Characteristics				
Input Voltage	380/400/415 VAC - 3PH + N+Earth			
Input Frequency	45-55 Hz			
Input Voltage Range	320 VAC-476 VAC			
Input THDi	<4% @ Rated Linear Load	<3% @ Rated Linear Load		
Input PF	>0.99 @ Rated Linear Load			
Output Characteristics				
Output Voltage	400 VAC +/-1% 3-Ph + N + E (Settable to 380/400/415 VAC)			
Efficiency in Double Conversion Mode	Upto 93%	Upto 94%		Upto 95%
Output Frequency (Nominal)	50 Hz/60 Hz			
Crest Factor	3:1			
Overload Capacity	Upto 110% for 1 Hour, 125% for 10 Min & 150% for 1 Min			
Efficiency in ECO Mode	>98%			
Isolation Transformer	Optional, Integrated			
Battery Characteristics				
Battery Type	VRLA - AGM Sealed Lead Acid, Maintenance Free			
Internal/Extrnal Batteries	External			
Battery Nominal Vdc	240 Vdc			480 Vdc
Common Battery Configuration	Yes Upto 2 UPS*			
Communication and Management				
Display	5" Touch Screen LCD Display			
Communication Port	RS232, RS485, Relay Contact			
Network Interface	Optional with SNMP			
REPO	Yes			
Alarms & Signals	All the required alarms & signals			
Physical Characteristics				
Unit Dimensions (W x H x D)	250 x 660 x 590 in mm			
Unit Net Weight	50 Kgs			
Environmental Characteristics				
Operating Temperature	0-40°C			
Degree of Protection	IP20			
Relative Humidity (%)	0-95% (Non-Condensing)			
Noise Level at 1m (dbA)	Max 65dbA at 100% Load			
Standards & Certifications				
Safety	IEC 62040-1			
EMC	IEC 62040-2			
Performance & Testing	IEC 62040-3			
Other	CE, RoHS & PEP**			

*At 35 Degree Celsius

**Application Under Process

General Tolerance +/- 2mm

Note: Product specifications are subject to change due to continuous development. Please ask for confirmation given in the publication.



SERVICE

In today's dynamic business environment, pre-emptive and efficient service delivery is key to business continuity. With a customer centric focus, we have put technology as an enabler for a seamless experience, quick response time and faster resolution with CRM.

On-site Training

Numeric's service engineers are aptly qualified to conduct training programmes and sessions which include hands-on operations, safety, erection, decoding the information on the front panel, precautions, necessary monitoring and many more crucial aspects.



Site Test, Commissioning

Our service engineers conduct rigorous site tests and full setting-up of the UPS system before going live. They also configure the UPS according to your requirements. Commissioning operations for all UPS are carried out by qualified engineers to guarantee seamless start-up. After the final handing over of the UPS system, the installation report is delivered to you.

Maintenance Preventive

Electronic equipment and power systems, such as UPS, contain limited-life components and parts that must be replaced according to the manufacturer's specifications. To ensure optimal performance and to protect your critical application from potential downtime, it is crucial to perform preventive maintenance operations on a regular basis and replace parts when needed. Our service contracts with PM include cleaning, UPS measurements, functional tests, technical reports if required, battery health check-up and software upgrades. A preventive maintenance plan is one of the most cost-effective actions that can preserve your initial investment and ensure your business continuity.



On Demand Service

In the event of an emergency call, engineers and stocks of spare parts are strategically located at locations near you to minimize downtime. This is available 24x7x365. Our proprietary diagnostic software helps our engineers identify the fault for a short Mean Time To Repair (MTTR). Corrective actions such as part replacement and other fixes are undertaken to return the UPS system back to normal operations.

Head Office

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Phone: +91 422 420 4018

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No.: 6-3-1219/J/101 & 102, Uma Nagar,
Opposite to Begumpet Metro Station,
Begumpet - 500016.
Phone: +91 40 4567 1717/2341 4398/2341 4367

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Edappally, Kochi - 682 024.
Phone: +91 484 6604 710

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Dinamalar Avenue,
Madurai - 625 016.
Phone: +91 452 260 4555

NUMERIC®

A Group brand |  **legrand®**

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Service - support.numeric@numericups.com
TOLL FREE No.: 1800 425 3266
www.numericups.com

Keor MP

Three-Phase UPS
From 60 kVA to 200 kVA

NUMERIC®

A Group brand |  legrand®

INNOVATION
THAT DRIVES
THE FUTURE

NEW ENERGY
TO POWER



www.numericups.com

UNLOCKING FUTURE POSSIBILITIES WITH Keor MP

Innovation is the cornerstone of our vision for a better future. It unlocks new possibilities, enabling us to enhance energy efficiency and improve system reliability. This unwavering commitment to innovation positions **Numeric** at the forefront of the power continuity industry.

With the introduction of the **Keor MP**, we extend this advantage to our customers, empowering them to remain ahead of the curve in their respective fields. A cutting-edge monolithic UPS system providing the reliability and efficiency necessary to meet the ever-growing demands of the future, today.





INNOVATION THAT DRIVES THE FUTURE

Designed to drive the future with innovation, the **Keor MP** is a groundbreaking advancement in the power backup technology. This 3-phase online double conversion monolithic UPS, featuring a **module-based architecture** with **Three Level IGBT based Inverter technology** delivers **unparalleled efficiency of up to 96%** in a **compact design**.

Integrated with **Li-ion battery technology**, a footprint that is up to **43% smaller than conventional UPS systems** and rapid scalability of up to **1.2MW**, the Keor MP ensures you are always ready to meet future demands, today. Advanced features coupled with a design that adapts to the diverse and evolving requirements of multiple sectors, makes Keor MP the ultimate solution for today and tomorrow.



FUTURE READY DESIGN



Module-Based Architecture for Low MTTR and High MTBF



Featuring a module-based architecture, the Keor MP significantly reduces Mean Time to Repair (MTTR). This allows for quick and efficient maintenance to ensure maximum operational uptime. It is engineered to provide redundancy with fault tolerance to enable seamless and reliable operations. The high MTBF further ensures consistent performance with minimal downtime.



Li-Ion Battery Integration

The Keor MP is uniquely integrated with Li-Ion batteries in a way that allows for monitoring of the battery parameters and selecting the charging characteristics of the battery, from the UPS's screen itself. This ensures optimized battery management and efficient troubleshooting, thereby enhancing overall system performance and reliability.

FUTURE ENHANCED INTERFACE & MONITORING



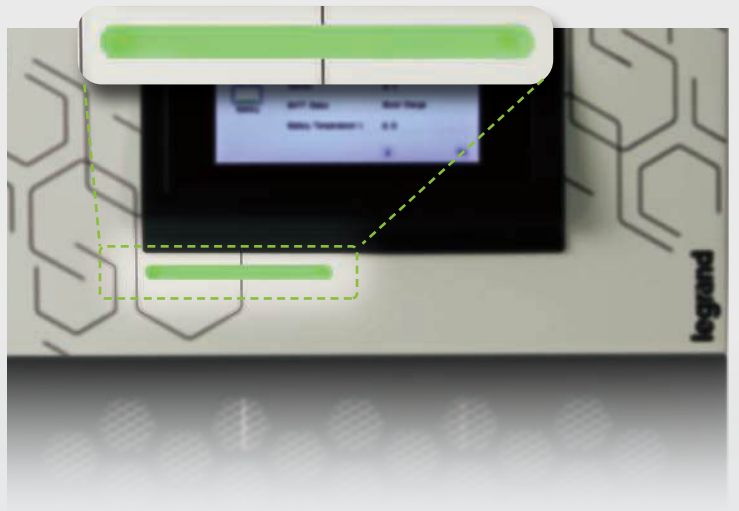
7" Multicolor Intuitive Touchscreen Display

The Keor MP features a user-friendly touchscreen display with graphical representations of system status and performance, ensuring instant visibility and seamless monitoring and control. Users can access real-time status indications, configure settings, and respond to alerts with ease.



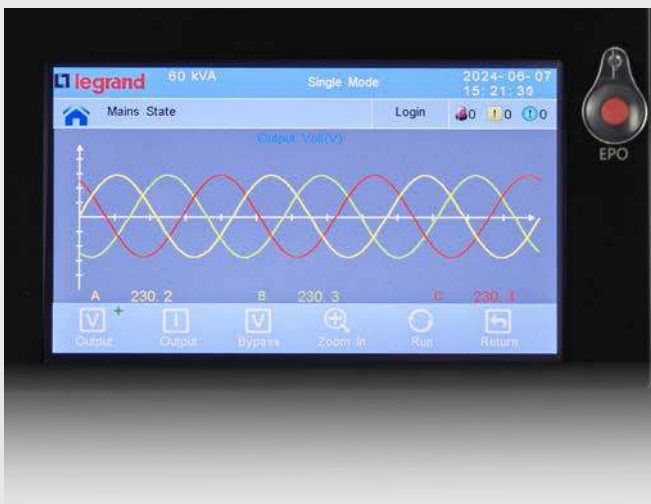
Live Synoptic View for Real-Time Status Indication

With a LED status bar that provides clear real time indication for quick assessment and monitoring, Keor MP's live synoptic view ensures comprehensive status updates of the system's performance, enabling prompt detection and resolution of issues.



Real-Time Waveform Monitoring

Keor MP is designed to provide real-time waveform monitoring, assuring users of reliable power quality and uninterrupted business continuity, by promptly detecting and addressing any power anomalies.





Wide Communication Options

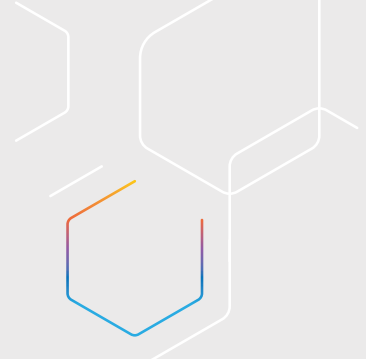
Supporting advanced communication protocols such as SNMP/BMS through RS 485, the Keor MP integrates smoothly into existing network environments. This capability enables remote monitoring, management, and seamless integration with Building Management Systems (BMS) for centralized control.



Dry Contact Cards for Signaling & Alerts

Integrated dry contact cards enable the Keor MP to send immediate signals and alerts for proactive maintenance and response to critical events. This enhances operational reliability by notifying users of any potential issues in real time.





FUTURE OPTIMIZED TOTAL COST OF OWNERSHIP (TCO)



Three Level IGBT inverter Technology

Keor MP's unparalleled Three Level IGBT Inverter Technology reduces the switching losses significantly, through voltage reduction in IGBTs, diodes, and inductors, thereby lowering energy consumption which directly reduces total cost of ownership by minimizing operational expenses associated with power usage and maintenance.



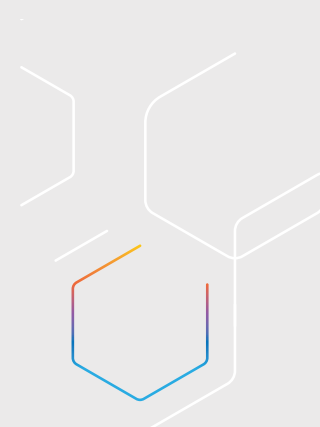
Compact Footprint

The Keor MP drives future innovation with a compact footprint, effectively optimizing space utilization and reducing real estate costs. This efficiency in size not only maximizes available floor space but also integrates seamlessly into diverse environments, making it a practical choice for modern infrastructure needs without compromising on performance or reliability.



High Efficiency

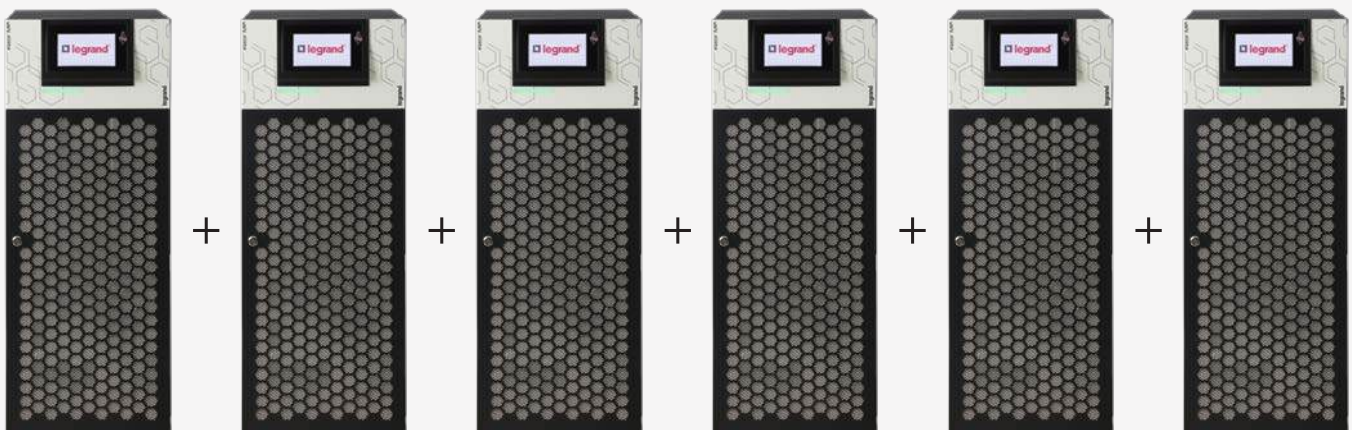
Keor MP achieves up to 96% efficiency, even at lower loads, which not only significantly reduces operational costs but also aligns with sustainable energy goals.



Self-Loading Feature

The self-loading feature allows for on-site testing of UPS before connecting it to the load.

N + X Redundancy



Keor MP allows N+X redundancy up to six UPSs in parallel operation and is scalable up to 1.2MW, effectively reducing the risk of downtime. The Load Bus Synchronization (LBS) allows the UPS to be connected with two different sources.

FUTURE ENSURED SAFETY & PROTECTION



Integrated Molded Case Circuit Breaker (MCCB)

The integrated Legrand's MCCB, offers best in class protection for the connected loads, ensuring safe operation, setting a benchmark in protection and performance standards in critical power applications.

Input Phase Sequence Correction

The Input Phase Sequence Correction feature in Keor MP enhances protection and safety allowing the UPS to function on mains power without going to the battery mode.

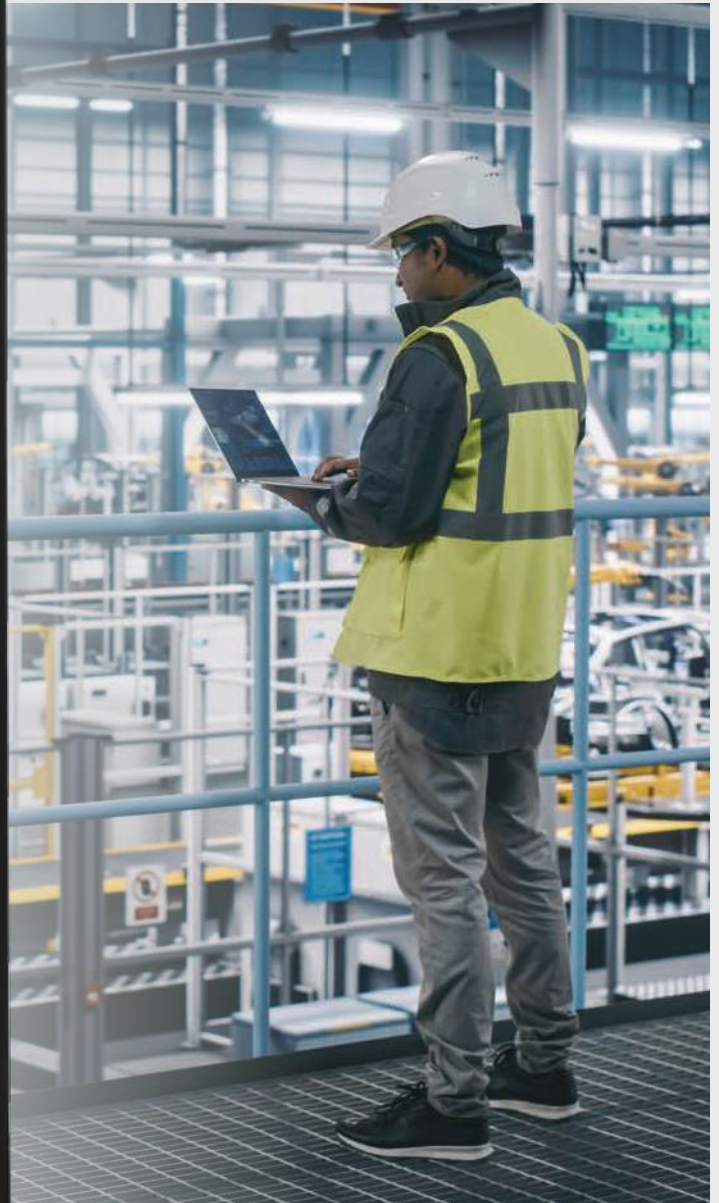
Back Feed Protection

Equipped with back-feed protection as per IEC 62040-1 UPS standard, Keor MP prevents the flow of energy back to the source and shields the bypass line from static switch failure, using special components that act like gates that stop unwanted voltages from causing harm or damaging equipment. If the UPS detects a back feed issue, it sends a signal to a protective device to cut off power, ensuring enhanced protection and added safety for both the users and the equipment.



Emergency Power Off

Keor MP's Emergency Power Off feature enhances safety and protection by providing a quick and reliable method to immediately shut down power in emergency situations, enhancing the safety & protection of the UPS and the load.



FUTURE RESILIENT RELIABILITY



Unity Power Factor

Keor MP, with its unparalleled operating temperature without deration, delivers unity power factor even at 40 degrees Celsius, making it a dependable choice for continuous operations under the most demanding conditions.

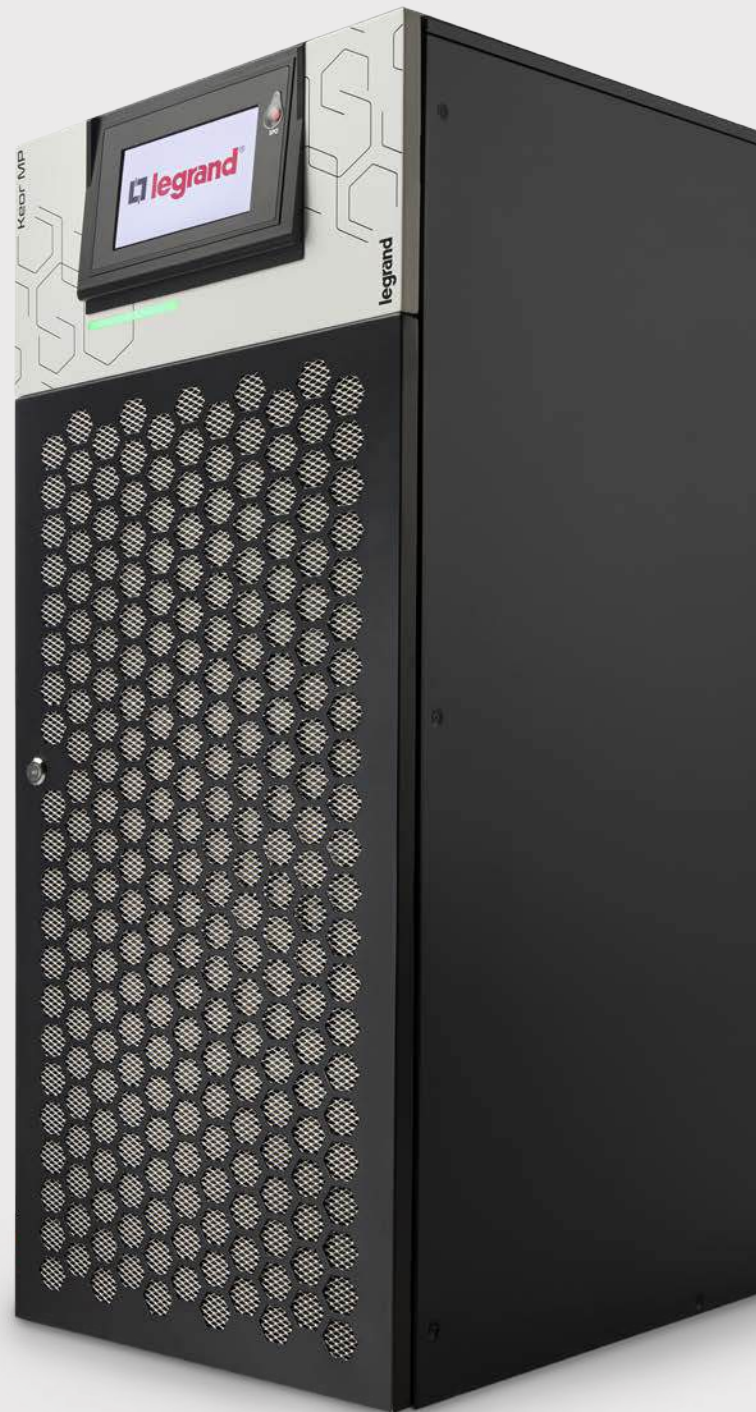
Conformal Coated PCB

Enhances durability with a 75 µm coating, protecting critical components from environmental stressors.



Proactive Maintenance

Continuous monitoring of fans, capacitors, dust filters, and batteries enables timely maintenance and prevents operational disruptions.




FUTURE ADAPTABLE FLEXIBILITY



Dual Input

The dual input feature in Keor MP enhances its adaptability by enabling it to accept power from and switch seamlessly between two independent power sources. This flexibility not only maximizes uptime and operational continuity, but also allows the UPS to adapt to varying electrical conditions and infrastructure configurations making it a versatile choice for critical applications where consistent power availability is paramount.




High Input Voltage & Frequency Range

Keor MP operates effectively within a wide input voltage window of 310 – 480 V, and a frequency of 40 – 70 Hz, adding to its flexibility by adapting to various power conditions and sources without switching to battery power, thereby extending battery life.




Common Battery Bank

Keor MP features a common battery bank that can be shared between two units, optimizing resource utilization, and providing enhanced flexibility in configuring reliable power backup solutions tailored to diverse operational requirements.



Flexible DC Bus

The flexible DC bus with 3-stage charging (Nominal, Intermittent & Boost) in Keor MP optimizes battery performance by accommodating various DC input battery voltages and battery configurations and employing an efficient charging process. Its cold start feature adds flexibility by enabling the UPS to initiate and operate using battery power alone, ensuring continuous operation even in the absence of mains power.



Isolation Transformer

The Keor MP also offers an optional isolation transformer that safeguards critical equipment from low quality upstream power and enables its safe operation.





INNOVATION THAT DRIVES THE FUTURE ACROSS DIVERSE SECTORS

Our customers across these industries have achieved transformative results with the Keor MP—increased efficiency, reduced operational costs, enhanced reliability, and uninterrupted uptime. Explore how Keor MP can drive success in your organization.

Healthcare

Essential support for hospitals, pathology labs, diagnostic centers and polyclinics, maintaining critical medical services.



IT & ITeS

Reliable power for enterprise offices, co-working spaces and data centers, ensuring uninterrupted operations.



Commercial

Power solutions for malls and hospitality sectors, ensuring seamless customer experiences.



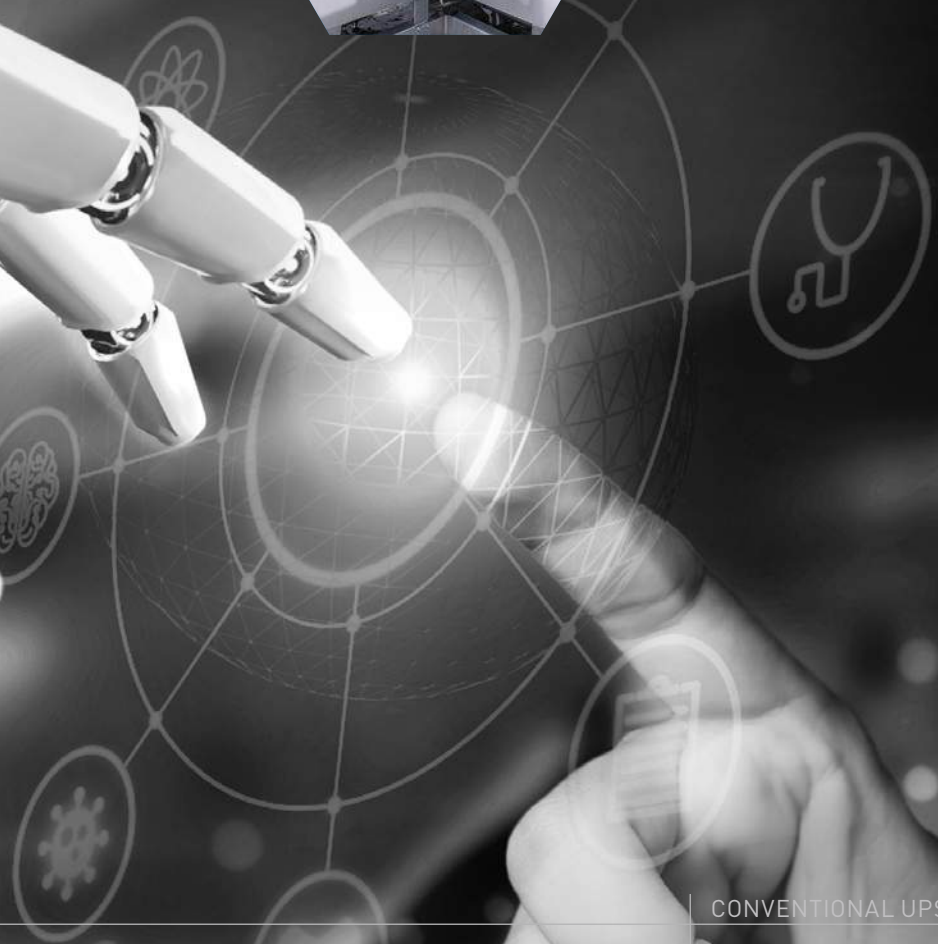
Infrastructure

Dependable UPS for ports and private airports, supporting essential operations.



Manufacturing

Uninterrupted power management for industrial applications like process and light industry, optimizing production efficiency.



Keor MP 60 kVA - 200 kVA

Three-Phase UPS

Characteristics

GENERAL SPECIFICATIONS		LGR 311235	LGR 311237	LGR 311239	LGR 311240	LGR 311241	LGR 311242
Nominal Power [kVA]		60	80	100	120	160	200
Active power (kW)		60	80	100	120	160	200
Possible Classification	True Online Double Conversion, VFI - SS - 111						
Possible configuration	3 phase + N + PE						
Specifications	Module-based Monolithic UPS with fault tolerance						
INPUT SPECIFICATIONS							
Input voltage	380-400-415 VAC						
Input voltage range	310-480 VAC at full load						
Input frequency	50 / 60 Hz (40 to 70 Hz)						
Input phases	3 phase + N + PE						
Input THDi (at rated linear load)	< 3%						
Specifications	0.99						
OUTPUT SPECIFICATIONS							
Nominal Output voltage	380/400/415 VAC						
Output Voltage Regulation	±1 (Balanced Load)						
Output Power Factor	1						
Output frequency	50/60 Hz						
Crest Factor	3:1						
Output Voltage THD	<2% for Linear Load & < 4% for Non Linear load						
Efficiency at rated load	>= 95.5%						
Efficiency on Eco mode	Up to 99%						
Permitted overload on mains (PF=1)*	≤110% @ 30 mins, ≤125% @ 10min, ≤150% @ 1min				≤110% @30min, ≤125% @1min		
Bypass	Inbuilt Static & Maintenance Bypass						
COMMUNICATION AND MANAGEMENT							
Cabinet displays	7" Touch screen color display cabinet and Multicolor status indicator (green/yellow/red)						
Communication ports	MODBUS RS485/Rs 232/USB/Ethernet/SNMP, & Dry Contacts (optional)						
Cold start	Yes						
Maximum number of parallel chassis	Max 6 cabinets						
EPO	Yes						
Alarm & Signals	Configurable acoustic alarms and signals						
Temperature Sensor	Yes, optional						
Safety and Protection	Overload, Short circuit, Back feed port available (external connection optional) all MCCBs, Over & Low voltage, Fast acting fuses						
BATTERIES							
Battery type/range voltage	VRLA, Ni Cd & Li-ion						
Nominal Battery Voltage	432 VDC-600 VDC						
Charging mode	3 stage advanced cycle						
MECHANICAL CHARACTERISTICS							
Overall Net weight (Kgs)	110	140	160	170	205	220	
Frame Dimensions (W x D x H)	250 x 850 x 1000 mm			442 x 850 x 1200 mm			
Ingress Protection	IP20						
Color Shade	RAL 9005+9003						
Cable entry	60-160 kVA rear bottom entry, 200 kVA front & rear bottom entry						
AMBIENT CONDITIONS							
Operating Temperature	0 - 40 °C						
Operating Humidity	20% - 95% non-condensing						
Operating Altitude	Upto 1000 mean sea level w/o deration						
Storage Temperature	20 - 55 °C						
Maximum noise audible at 1m [dBA]	58	60	62	62	63	66	
CONFORMITY							
Safety	IEC 62040-1						
EMC	IEC 62040-2						
Performance	IEC 62040-3						
Environmental	IEC 62040-4						
Declarations	RoHS / REACH						

* at 30 Deg C

CUSTOMER SERVICES



Reliable

Directly present in 250+ locations across India to ensure quick support, a team of 900 factory qualified engineers are available 24/7/365 to support your UPS system to ensure availability to the most critical loads.

Excellent

Numeric's competitive edge lies in its ability to provide high value added UPS systems and service for customers. For Numeric, creating value means providing solutions with low energy consumption. The Legrand Group also provides all products required for electrical and digital building installations, particularly as an integrated system, with a solution to fit customer needs.

Tailor-made

We offer a complete range of specific solutions and services to meet customer requirements:

- Technical pre-sales support
- UPS sizing and solution
- Supervision of installation, testing and commissioning.
- Operator training
- Site audits
- Warranty extension offers
- Annual maintenance contract

FUTURE-READY SUPPORT AND SERVICES

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Customer Excellence Center

Numeric is equipped with a state-of-the-art Customer Excellence Center that provides a comprehensive, technology-enabled, end-to-end customer support available round-the-clock, 24x7.



Battery Health Monitoring System & Remote Monitoring System

Our Battery Health Monitoring System & UPS Remote Monitoring system enable us to monitor the health and performance of batteries and the UPS remotely and in real-time.



Virtual Remote Assistant (VRA)

With our one of a kind Virtual Remote Assistant solution, customers are assured of quick and hassle-free resolution to their issues, which is done over a video call in real time. This innovative approach allows our experts to diagnose and resolve problems efficiently, providing immediate support and minimizing downtime.

Head Office

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& Mokhare College, Bhamti Road,
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Begumpet 500016
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Phone : +91 484 6604 710

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Phone : +91 452 260 4555

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TRIMOD HE UPS



MODULAR
3-PHASE UPS
from 10 to 80 kW



NUMERIC[®]
A Group brand | **legrand**[®]

TRIMOD HE

HIGH performance
HIGH efficiency
LOW environmental impact

DEVELOPMENTS IN TECHNOLOGY

Legrand's modular UPS know-how goes back more than 20 years, when the first ever modular UPS were introduced in 1993. Since then, continuous firmware development and research on control and hardware components have led to no stop improvements in system reliability, quality and technical performance.

Continuous research combined with modern production methods has led Legrand to offer the market a cutting-edge, top-performing product: certified efficiency up to 96% and unity power factor.

Combining high density with a structural design that optimises the space, the new TRIMOD HE systems is the ideal solution for advanced energy management and cost containment.

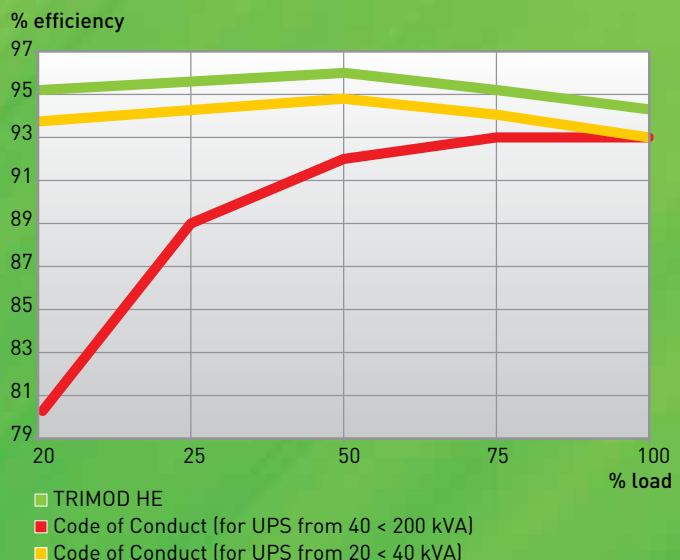


CERTIFIED EFFICIENCY

One of the highest values in the market

96%

The European Code of Conduct requires a minimum value of 92%. TRIMOD HE is up to 4% more efficient, thus effectively dividing by 2 all UPS energy losses.



kVA = kW

POWER FACTOR 1

INCREASED POWER

Thanks to unity power factor the new TRIMOD HE UPS guarantee maximum real power; 11% more than competitor products offering 0,9 power factor.



TRIMOD HE

EXPANDABLE
SCALABLE
MODULAR
VERSATILE

The innovative concept of 3-PHASE modularity, consisting of INDIVIDUAL 1-PHASE MODULES

which feature in the entire TRIMOD HE range, allows you to optimise power availability, increase system flexibility and reduce the total cost of ownership (TCO).

The standardised structure, consisting of smaller and lighter modules, makes it easier to transport and install the UPS systems.

All the components are self-configuring and integrate a Plug&Play connection system to make all diagnostics, maintenance and future expansion phases easier.

Because the TRIMOD HE system is versatile and programmable, it is also possible to:

- supply 3 independent single-phase lines, assigning a different priority to each one, in terms of operating time
- offer 3 different input/output configurations in a single cabinet: 3/3, 1/1, 3/1, 1/3
- increase the duration of the average battery life thanks to the Smart Charging System



Compact, lightweight single-phase power module (only 8.5 kg)

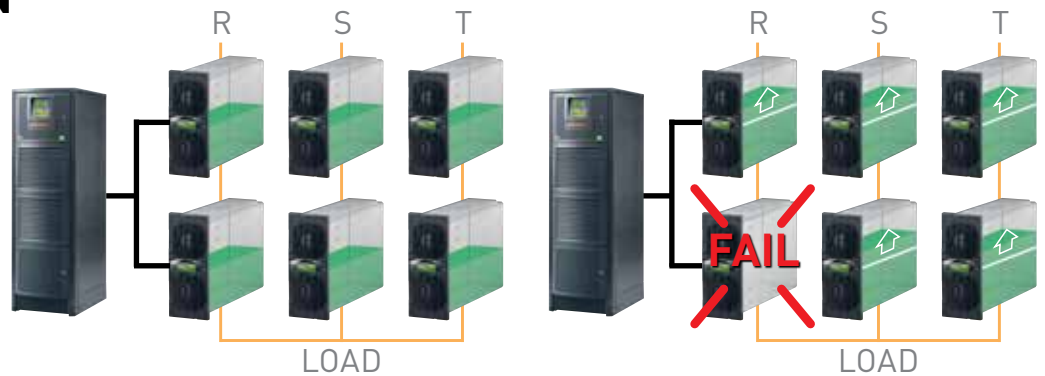


Easy to handle and install battery module (only 13 kg)



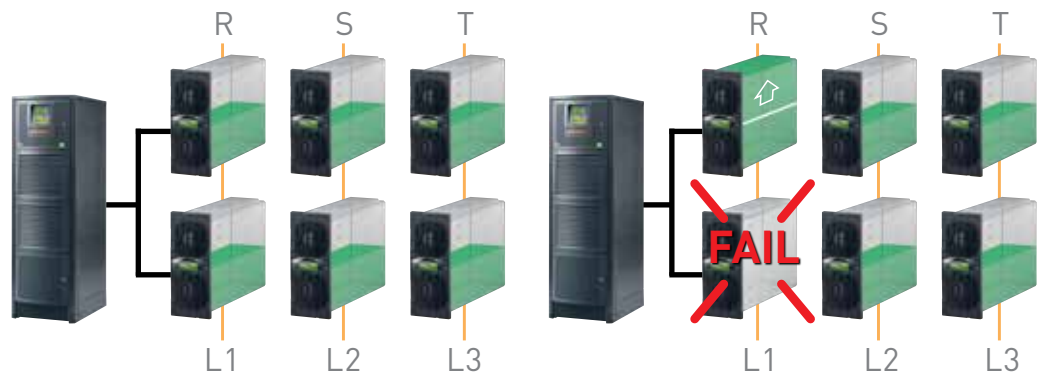
REDUNDANCY ON SINGLE-PHASE LOAD

In a system with a 3-phase power supply and a 1-phase load there will be no power loss if one of the modules fails, as the power will be delivered by the other operational modules.



REDUNDANCY ON THE PHASES

In a system with three independent outputs, it is possible to set the redundancy on the 1 phases. If one of the power modules fails, the modules in the same phase take over for the defective module.



HIGH LEVELS OF REDUNDANCY

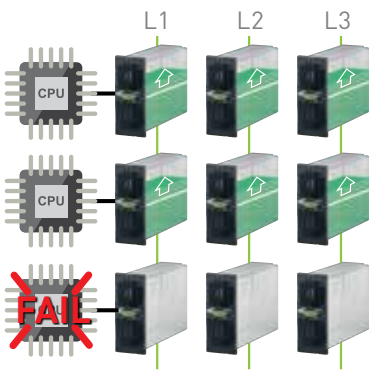
Thanks to the construction technology of the TRIMOD HE UPS systems, you can set various redundancy levels so that maximum continuity of service is always guaranteed.



TRIMOD HE

POWER CABINET WITH MULTI CONTROL BOARD

In order to increase service continuity and consequently decrease failures (limit the single point of failure) the new cabinet are provided with more control modules, from 1 to a maximum of 4, so as to ensure redundancy on control.



Redundancy on the control

In UPS systems incorporating several control modules, failure of one of the control boards results in the module it controls being switched off. However, continuity of service is assured by automatic distribution of the lost power over the other modules.

HOT-SWAP

Thanks to the multi control board system you can replace the power modules without switching off the UPS.

Separate batteries

The new multi control board cabinet, also allows you to associate each control a separate battery bank.



POWER CABINET WITH **DUAL INPUT** FUNCTION

TRIMOD HE, offers cabinet with power up to 80 kW and DUAL INPUT function. The new cabinet can be fed with two different AC sources. The configuration can be selected at installation time and easily obtained by removing a bridge in the input terminals.

POSSIBLE CONFIGURATIONS

SCALABLE SOLUTION
FROM 40 kW UP TO 80 kW

SCALABLE SOLUTION
FROM 60 kW UP TO 80 kW

REDUNDANCY SOLUTION
60 kW N+1



TRIMOD HE

Double conversion VFI three-phase modular UPS



Pack	Cat.Nos	Single input power cabinet without modules		
		Nominal Power (in kVA)	Weight (in kg)	Dimension (W x D x H) in mm
1	7204 107	10	85	414 x 628 x 1370
1	7204 108	15	90	414 x 628 x 1370
1	7204 109	20	90	414 x 628 x 1370
1	7204 110	30	80	414 x 628 x 1370
1	7204 111	40	80	414 x 628 x 1370
1	7204 112	60	90	414 x 628 x 1370

		Dual input power cabinet without modules			
		Nominal Power (in kVA)	Weight (in kg)	Dimension (W x D x H) in mm	Control Boards
1	7204 121	10 KVA	86	414 x 628 x 1370	1
1	7204 122	15 KVA	89	414 x 628 x 1370	1
1	7204 123	20 KVA	89	414 x 628 x 1370	1
1	7204 124	30 KVA	85	414 x 628 x 1370	2
1	7204 125	40 KVA	82	414 x 628 x 1370	2
1	7204 126	60 KVA	91	414 x 628 x 1370	3
1	7204 127	80 KVA	120	414 x 628 x 1650	4

		Accessories	
		Description	
1	7218 641	Power modules 3.4 kVA	
1	7218 642	Power modules 5 kVA	
1	7218 643	Power modules 6.7 kVA	
1	7218 644	Additional charger module	

		Communication Option	
		Description	
1	7218 631	CS 141 SK Professional (SNMP only)	
1	7218 632	CS 141 B SK Standard (SNMP with sensor)	
1	7218 633	CS 141 M SK Industrial (SNMP with modbus)	

Pack	Cat.Nos	Empty Cabinet for estimated backup time of appx 15 Mins	
		Nominal Power (in kVA)	Dimension (W x D x H) in mm
1	7218 823	10	800 x 400 x 1300
1	7218 824	15	800 x 450 x 1300
1	7218 824	20	800 x 450 x 1300
1	7218 825	30	950 x 370 x 1600
1	7218 825	40	950 x 370 x 1600
2	7218 825	60	950 x 370 x 1600
2	7218 827	80	975 x 460 x 1900

		Empty Cabinet for estimated backup time of appx 30 Mins	
		Nominal Power (in kVA)	Dimension (W x D x H) in mm
1	7218 824	10	800 x 450 x 1300
1	7218 825	15	950 x 370 x 1600
1	7218 826	20	950 x 370 x 1600
2	7218 825	30	950 x 370 x 1600
2	7218 825	40	950 x 370 x 1600
2	7218 827	60	975 x 460 x 1900
2	7218 829	80	1025 x 575 x 1900

Note: Dimension will have a variation of ± 2mm

TRIMOD HE

Double conversion VFI three-phase modular UPS

Characteristics

General specifications							
Nominal power (kVA)	10	15	20	30	40	60	80
Active power (kW)	10	15	20	30	40	60	80
Module power (kW)	3.4	5	6.7	5	6.7	6.7	6.7
Classification	On-Line double conversion VFI-SS-111						
System	Modular, expandable and redundant UPS system						
Input specifications							
Input voltage	380, 400, 415 3PH+N+PE (or 220, 230, 240 1PH)				380, 400, 415 3PH+N+PE		
Input frequency	45-65 Hz (43,0 ÷ 68.4 Hz)						
Input voltage range	400V +15%/-20% - 230V +15%/-20%				400V +15%/-20%		
THD input current	< 3% (at full load)						
Input power factor	> 0.99						
Output Specifications							
Output voltage	380, 400, 415 3F+N+PE (o 220, 230, 240 1F)				380, 400, 415 3F+N+PE		
Efficiency	Up to 96%						
Efficiency in Eco mode	99%						
Nominal output frequency	50/60 Hz selectable by the user ±2 % (standard), ±14 % (extended)						
Crest factor	3:1						
Waveform	Sinusoidal						
Output voltage tolerance	±1%						
THD output voltage	<1%						
Overload capacity	10 minutes at 115%, 60 seconds at 135%						
Bypass	Automatic bypass (static and electromechanical) and manual maintenance bypass						
Batteries							
Battery module	Plug & play						
Battery series type/voltage	VRLA - AGM / 240 Vdc						
Operating time	Configurable						
Battery charger	Smart charge technology. 3-stage advanced cycle						
Batteries separate configuration	no					yes	yes with kit
Communication and management							
Display and signals	4 x 20-character lines, 4 menu navigation buttons, LED multi-colour status indicator, alarms and audio signals						
Communication ports	2 RS232 serial ports, 1 logical gate, 5 ports with dry contacts, 1 slot for interfaces						
Backfeed protection	NC/NO auxiliary contact						
Emergency Power Off (EPO)	Yes						
Remote management	Available						
Physical Specifications							
Height	1370	1370	1370	1370	1370	1650	
Width	414	414	414	414	414	414	
Depth	628	628	628	628	628	628	
Installed power modules	3	6	6	9	12		
Installable battery drawers as option	Up to 12	-	-	-	-		
Net weight kg	120	146	146	165	196		
Ambient Conditions							
Operating temperature/humidity	0 - 40°C / 0 - 95% non condensing						
Protection rating	IP21						
Maximum audible noise at 1 m from the unit (dBA)	58-62						
Conformity							
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3						
Certification	UE						



Customer services

Reliable

Directly present in 254 locations across India to ensure quick support, a team of 900 factory qualified engineers are available 24/7/365 to support your UPS system to ensure availability to the most critical loads.

Excellent

Numeric competitive edge lies in its ability to provide high value-added UPS systems and service for customers. For Numeric, creating value means providing solutions with low energy consumption. The Legrand Group also provides all products required for electrical and digital building installations, particularly as an integrated system, with solution to fit customer needs.

Tailor-made

We offer a complete range of specific solutions and services to meet customer requirements:

- Technical pre-sales support
- UPS sizing and solution
- Supervision of installation, testing and commissioning.
- Operator training
- Site audits
- Warranty extension offers
- Annual maintenance contract

SERVICES

Support

SITE INSPECTION, INSTALLATION SUPERVISION.

We perform a comprehensive check of the UPS environment to ensure safety and fault-free operation. Our technical experts give manufacturer's recommendations to the site engineer or electrical contractors, and supervise the UPS installation before load power-up.



SITE TEST, COMMISSIONING.

Our Service Engineers conduct rigorous site tests and full setting-up of the UPS system before going live. They also configure the UPS according to your requirements. Commissioning operations for all UPS are carried out by qualified engineers to guarantee seamless start-up. After the final handing over of the UPS system, installation report is delivered to you.

Training

TRAINING

We offer on-site training to ensure your equipment's safe and efficient operation. Troubleshooting courses are also available in our plants for intensive hands-on practice on UPS training equipment.



Maintenance

PREVENTIVE MAINTENANCE

Electronic equipment and power systems, such as UPS, contain life-limited components and parts that must be replaced according to the manufacturer's specifications. To ensure optimal performance and to protect your critical application from potential downtime, it is crucial to perform preventive maintenance operations on a regular basis and replace parts when needed. Our Service Contracts with PM include cleaning, UPS measurements, functional tests, technical reports if required, battery health checkup and software upgrades. A Preventive Maintenance Plan is one of the most cost-effective actions that can preserve your initial investment and ensure your business continuity.



CORRECTIVE MAINTENANCE, EMERGENCY CALL

In the event of an Emergency Call, our engineers and spare-parts stocks strategically located as close as possible to your location, provide an intervention time with 24/7/365 assistance. After connecting a laptop to your UPS, a very powerful diagnostic software helps our engineer to identify the fault, thus ensuring short MTTR (Mean Time To Repair). Corrective actions are performed such as part replacement, adjustments to return the UPS system back to normal operation.

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Keor MOD

THREE-PHASE
MODULAR UPS

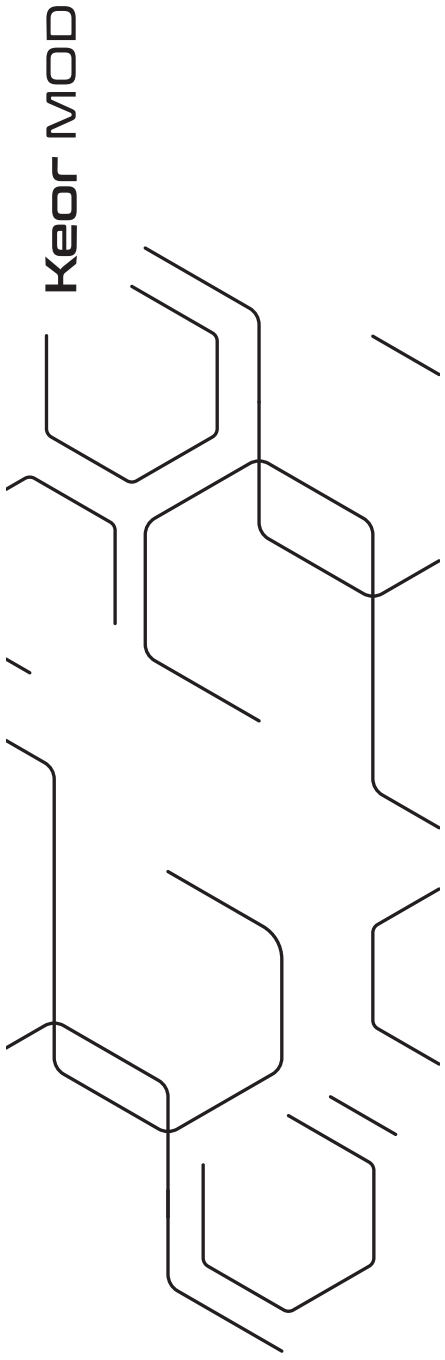
up to 250 kW



THE GLOBAL SPECIALIST
IN ELECTRICAL AND DIGITAL INFRASTRUCTURES



legrand



CONTENTS

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6	TECHNOLOGY AND DESIGN
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16	EXCLUSIVE TOUCH SCREEN DISPLAY
18	COMPLETE ON BOARD COMMUNICATION
20	CATALOGUE
22	CUSTOMER CARE SERVICES



Keor MOD

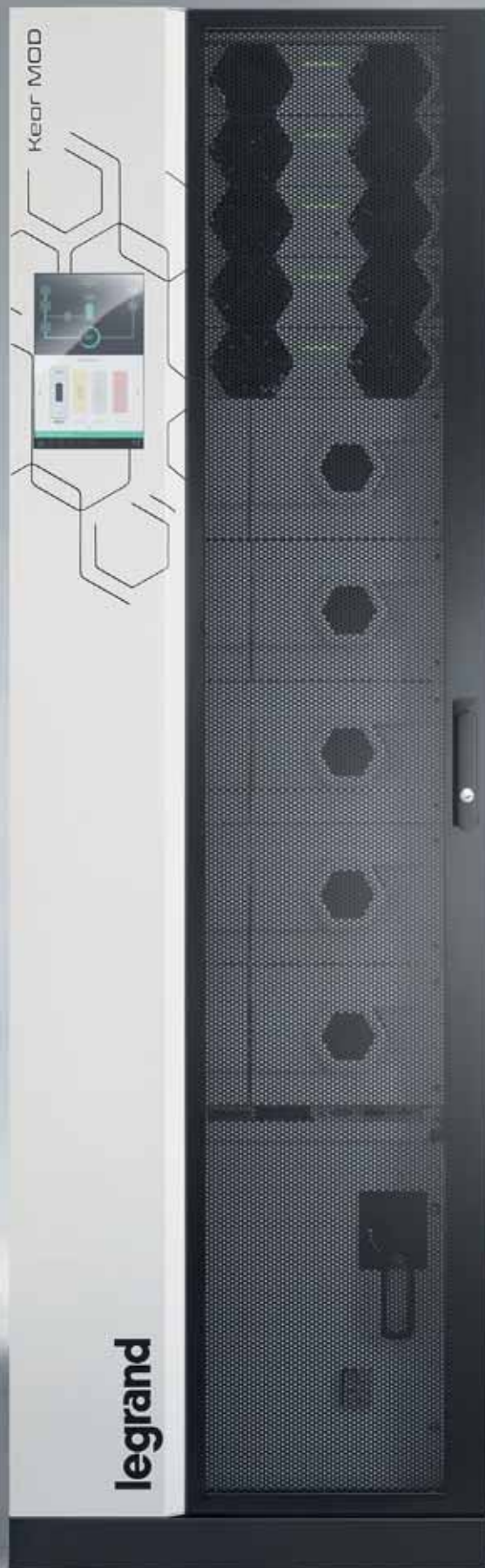
MORE THAN A UPS

Legrand presents the new **Keor MOD**, the latest addition to the UPS family that redefines the concept of modularity.

Design with unrivalled futuristic style and features.

Outstandingly flexible architecture for all installations and applications.

State-of-the-art technology to achieve the highest levels of efficiency.



Keor MD101



Keor MOD

TECHNOLOGY AND DESIGN

STYLISH

The elegance of the design and the skilful choice of materials have joined forces to create a modern and cutting-edge machine, a UPS with a highly emotional DNA boasting market-leading performance.

REVOLUTIONARY

All the elements comprising the system have been designed to ensure maximum reliability and performance, without forsaking its ease of installation and maintenance. The use of light colours and highly reflective surfaces contribute to reducing environmental lighting in technical rooms (DATA CENTRES), and reduce consumptions in line with a GREEN approach.

POWERFUL

The **Keor MOD** power module is the smallest 25 kW three-phase module available on the market; its high power density (1136 W/dm³) makes it possible to achieve configurations of 125 kW with 5.2 minutes of autonomy (internal batteries) or 250 kW in less than 1m² of space on the ground with the door open.

PERFORMING

- Double conversion efficiency up to 96.8% (from 20% to 50% of the load)
- Efficiency in ECO mode up to 99%.
- Output power factor = 1
- Hot-swappable modules.
- Modular redundancy in N+1 configuration.
- Intelligence distributed between modules.
- UPS system capacity up to 600 kW.
- Decentralised by-pass.
- Reduced battery charging times.

Keor MOD

IDEAL FOR IT INFRASTRUCTURES

Keor MOD is the ideal solution for all critical computer applications such as DATA CENTERS; its structure allows us to respond to customer demands in terms of continuous evolution of the IT infrastructure.

The range includes just two cabinet configurations:

- up to 5 power modules with internal batteries (25 - 125 kW)
- up to 10 power modules (25 - 250 kW).





PARALLEL SYSTEM (Up to 600 kW without batteries)

Each unit can be connected in parallel to identical or different units until the desired power and/or redundancy levels are reached.

For instance, it is possible to connect up to 4 x 125 kW units with internal batteries in parallel, obtaining a total system power of 500 kW (N+1 redundancy equal to 475 kW in any failure situation).

Moreover, with **Keor MOD** it is possible to connect in parallel up to 24 power modules, also connecting cabinets with different numbers of modules.



Keor MOD

A COLLABORATION OF



TECHNOLOGY



25 kW power module in just 2 units

Extensive research and use of latest generation components is behind the development of this three-phase power module with top performance levels in its category, minimising footprints and weights.

With a capacity of 25 kW and a footprint of just 2 rack units, the **Keor MOD** power module ensures maximum performance in exceptionally small spaces.

The **Keor MOD** power module is equipped with “System On Chip” type control technology which, unlike the conventional version (DSP based), contains a dual Core ARM A9 processor, a high performance FPGA and a set of advanced devices within one single component. This technological choice provides an impressive range of advantages in terms of processing power, speed and versatility.

The power module houses the following components: input PFC, three-level inverter, integrated and independent control logic, battery charger, static and electromechanical by-pass.

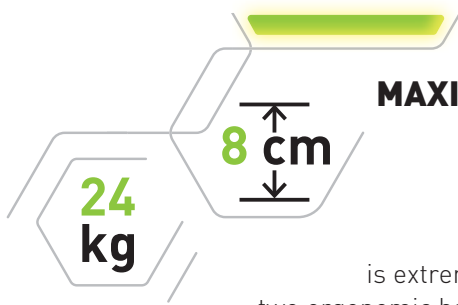
Structured Energy Flow

Unique in its kind, **Keor MOD** introduces the new *Structured Energy Flow* system, effectively eliminating all the connection cables inside the power module.

The connections between the various power sections are achieved by the structure that physically connects them. This results in an exceptionally high level of reliability.

Keor MOD

EXCLUSIVE FEATURES



MAXIMUM MANOEUVRABILITY

The power module, is extremely compact and integrates two ergonomic handles to facilitate extraction and insertion of the module. Its light weight means it can also be handled by a single person.



ELECTRICAL AND MECHANICAL SAFETY

A simple and practical "SWITCH" on the front provides the connection and the disconnection both mechanical and electrical, which prevents any incorrect or involuntary removals.



INSTANT COMMUNICATION

Distinctive element of all the Legrand UPS, **Keor MOD** also integrates a Led Status Bar (Multicoloured status bar) with traffic light type coding for the immediate display of the actual operating status.

«HOT SWAP» DESIGN

Thanks to the hot swap functions, plug and play and the total independence of each power module, all maintenance phases and any power expansion are extremely swift and simple.

CONTROLLED NOISE LEVEL

The control of the cooling fans is performed independently based on the load and the temperature of the single power stage, hence decreasing energy consumptions and the noise level of the system.



Keor MOD



INTERNAL BATTERIES UP TO 125 KW

Safe extraction

The battery drawers can be easily extracted using the handle on the front.

The mechanical anti-extraction stop prevents complete extraction of the drawer, preventing accidental falling and allowing operators to work in complete safety.



Light and dividable

The batteries inside the drawer are divided into 4 blocks, each with 6 batteries; this reduces weight (<16 kg each) and avoids direct contacts with dangerous voltages during maintenance phases.

Ease of handling

Each 6-battery block can easily be removed using the integrated handle.

The replacement of individual sections requires very little time and guarantees swift maintenance operations.

Keor MOD

EXCLUSIVE TOUCH SCREEN DISPLAY

PATENT PENDING

Rotating, unique functionality

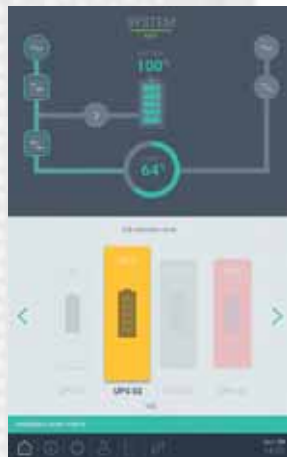
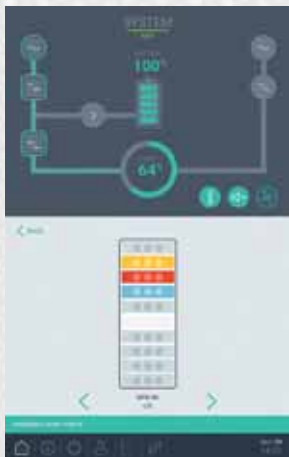
The 10" touch screen display provides a simplified control panel packed with information, alerts and settings and is also equipped with interactive icons to make navigation and selection of the functions to be controlled quick and simple.

The possibility of being able to rotate the Display inwards by 180° simplifies and speeds up the configuration and maintenance phases.



10 inches with innovative graphics

The display is positioned vertically so you have both the operating block diagram and the UPS layout with all the available information on the same screen.



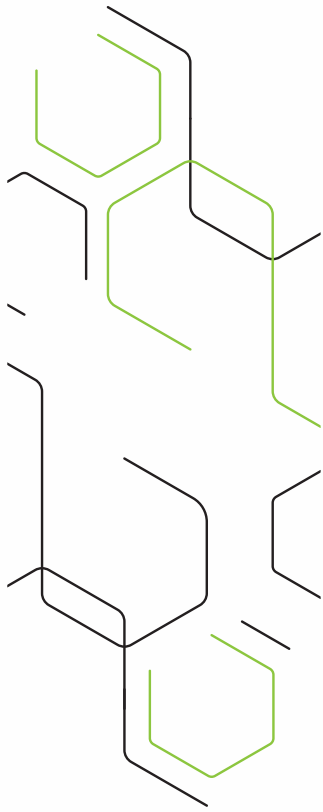


Intuitive and user friendly

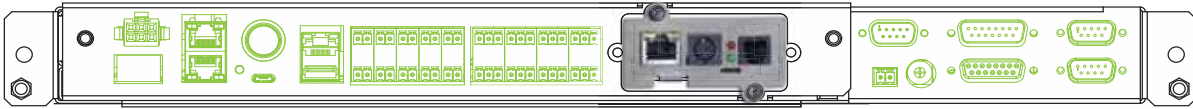
All the display icons, including the operating panel, are interactive so as to facilitate navigation and the setting of customisable functions.



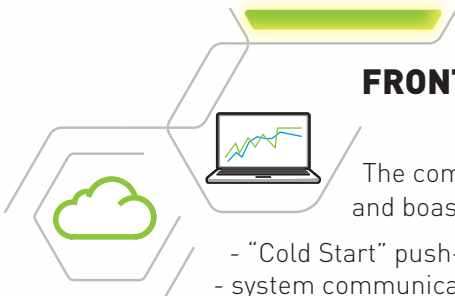
Keor MOD



COMPLETE ON BOARD COMMUNICATION



FRONT COMMUNICATION MODULE



The communication module is positioned on the front, is easily accessible and boasts a wide selection of communication interfaces.

- "Cold Start" push-button
- system communication ports
- RS485 port
- RS485 port for external accessories
- logical gate
- communication interface slot
- USB host port
- 11 floating contact inputs
- 8 floating contact outputs



Eliot is the Legrand program dedicated to connected objects (Internet of things) which identifies all those products or systems which, because they can connect to the internet, give added value in terms of functionality, information, interactions with the environment and use.

Keor MOD

UPS Modular three-phase double conversion VFI



3 104 80

Articles UPS - empty power cabinets

Articles	Power (kW)	Installable battery drawers	Distribution	Weight (kg)
3 104 80	25 - 125	from 2 to 5 battery drawers	3-3	
3 104 81	25 - 250	-	3-3	

Accessories

Description

- 3 106 75 25 kW power module
- 3 106 76 Empty battery blocks kit for 6 batteries (to be used in sets of 4 per drawer)
- 3 106 77 Kit of 2 EMPTY battery drawers
- 3 106 78 Kit of 4 battery blocks (6 x 9 Ah batteries)
- 3 106 79 Kit of 4 battery blocks (6 x 11 Ah batteries)
- 3 109 62 Kit of 4 battery blocks (6 x 9Ah Long Life batteries)

Codes in red new products.

Keor MOD

UPS Modular three-phase double conversion VFI

Configuration examples

UPS up to 125A

25
Power: 25 kW
Back-up time: 48 min. when 100% charged
1 Power module
10 Battery drawers



UPS up to 250A

50
Power: 50 kW
2 Power modules



75

Power: 75 kW
Autonomy: 11 min. when 100% charged
3 Power modules
10 Battery drawers



100

Power: 100 kW
4 Power modules



125

Power: 125 kW
Autonomy: 5.2 min. when 100% charged
5 Power modules
10 Battery drawers



250

Power: 250 kW
10 Power modules



NOTE: the stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

Keor MOD

UPS Modular three-phase double conversion VFI

Characteristics										
General specifications										
Nominal power (kVA)	25	50	75	100	125	150	175	200	225	250
Active power (kW)	25	50	75	100	125	150	175	200	225	250
Module power (kW)	25									
Classification	On-Line double conversion VFI-SS-111									
No. Power modules	1	2	3	4	5	6	7	8	9	10
System	Modular, expandable and redundant UPS system									
Input specifications										
Input voltage	400V 3F+N+PE									
Input frequency	45-65 Hz (43.0 ÷ 68.4 Hz)									
Input voltage range	400V +15%/-20% - 230V +15%/-20%									
THD input current	< 3% (at full load)									
Compatibility with power supply units	Yes									
Input power factor	> 0.99									
Output Specifications										
Output voltage	380, 400, 415V									
Efficiency (power module)	Up to 96.8%									
System efficiency	Up to 96.5%									
Efficiency in Eco mode	99%									
Nominal output frequency	50/60 Hz selectable by the user ±2 % (standard), ±14 % (extended)									
Crest factor	3:1									
Waveform	Sinusoidal									
Output voltage tolerance	±1%									
THD output voltage	<0.5% with linear load, <1% with non-linear load									
Overload capacity	10 minutes at 125%, 60 seconds at 150%									
Bypass	Automatic bypass (static and electromechanical) and manual maintenance bypass									
Batteries										
Battery module	Plug & play									
Battery series type/voltage	VRLA - AGM 12 V, 9 Ah - 11 Ah									
Autonomy	Configurable									
Battery charger	Smart charge technology. 3-stage advanced cycle									
Independent battery configuration	Yes, maximum 5 sets of independent batteries (configurable as common or separate units)									
Communication and management										
Display	10-inch rotating colour touch screen									
Communication ports	2 x RS485 ports (one for external accessories), 11 input floating contacts, 8 output floating contacts, 1 interface slot, USB host port									
Back feed protection	NC/NO auxiliary contact									
Emergency Power Off (EPO)	Yes									
Cold start push-button	Yes									
Remote management	Available									
Mechanical characteristics										
Height (mm)	1990									
Width (mm)	600									
Depth (mm)	970									
Installable power modules	Up to 5					Up to 10				
Installable battery drawers	Up to 10					—				
Net weight kg										
Ambient Conditions										
Operating temperature/humidity	0 - 40°C / 0 - 95% non condensing									
Protection rating	IP20									
Maximum audible noise at 1 m from the unit (dBA)	50-65									
Conformity										
Certifications	EN 62040-1, EN 62040-2, EN 62040-3									
Services:										
Installation	Modular architecture with "plug & play" power modules and batteries									
Maintenance	Availability of optional services provided by the manufacturer									
Ease of management	Advanced diagnostic functions via the touch screen display									

CUSTOMER CARE SERVICES



RELIABLE

We are physically present in over 70 countries, which means we are able to intervene and provide support in over 150 countries worldwide. A team of qualified technicians is at your service to provide support and guarantee the correct functioning of your UPS; this aims to ensure high quality power and availability of energy even at the most critical loads.

EXCELLENCE

Legrand's competitive advantage lies in its capacity to provide high added value UPS and services for end users and business partners alike. Legrand's vision sees the creation of value as finding low energy consumption solutions, but also integration of solutions in the process of global development. With a catalogue of over 200,000 articles, the Group supplies all the products necessary for the realisation of electrical and digital systems, in particular integrated systems, aimed at finding solutions to meet everyone's needs.

TAILOR-MADE

Legrand provides a complete range of specific solutions and services to meet customer requirements:

- Pre-sale technical support during the design phase
- Final factory inspection and testing
- Supervision during installation, final testing and commissioning.
- On-site acceptance tests
- Training for operators
- On-site audits
- Extended warranties
- Annual maintenance contract
- Swift intervention in case of emergency calls





SUPPORT TRAINING MAINTENANCE

SUPPORT

Site inspection, installation supervision

We conduct a complete inspection of the environment in which the UPS will be installed to ensure its safety and failure free operation. Our technicians provide recommendations for the technical office or the electrical installer, and supervise the installation of the UPS before commissioning.

On-site tests, commissioning

Our technicians conduct thorough on-site tests and complete configuration of the UPS before commissioning. They also perform final inspection and testing operations according to your needs. The UPS commissioning operations are performed by our qualified engineers, to guarantee maximum functionality and the elimination of any problems after start-up.



TRAINING

We provide on-site training to guarantee safe use and efficient operation of your UPS.

Maintenance courses are also held at our training centre with equipment available for practical sessions.



MAINTENANCE

Preventive maintenance

Electronic equipment and electrical systems, like UPS devices, contain components and parts with a limited service life that must be periodically replaced according to the manufacturer's specifications; these replacement times are influenced by many factors, such as the ambient temperature, the nature of the load etc. To guarantee optimal performance and to protect your critical applications, as far as possible, from potential downtimes, it is essential to perform regular preventive maintenance and replace worn parts whenever necessary.

Our servicing contracts include cleaning, IR thermography, measuring, functional testing, event logs and power quality analysis, battery life checks, hardware and software updates and technical reports. A preventive maintenance plan is one of the most convenient ways to preserve your investment and ensure the continuity of your business operations.

Corrective maintenance, emergency intervention

Thanks to the use of state-of-the-art equipment, custom made servicing software and regular training courses, our technicians are able to minimise analysis times and guarantee a short MTTR (Mean Time To Repair). The malfunctioning parts will be replaced, and corrective actions, adjustments and updates will be performed to swiftly return the UPS to its normal operational status.





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